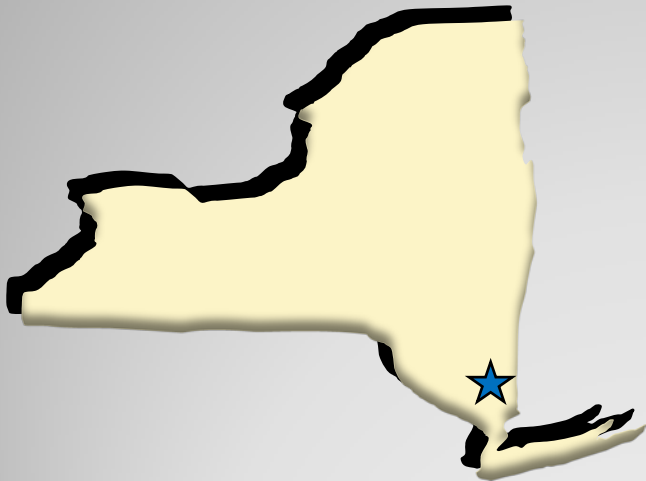


FINAL BASIS OF DESIGN REPORT

Empire Electric Site (2-24-015)
Kings County, Brooklyn, New York



Prepared for:



New York State Department of Environmental Conservation
Division of Environmental Remediation

Prepared by:



EA ENGINEERING, P.C. and Its Affiliate
EA SCIENCE and TECHNOLOGY

July 2009

**Basis of Design Report
Empire Electric Site (2-24-015)
Brooklyn, New York
Work Assignment D004441-26**

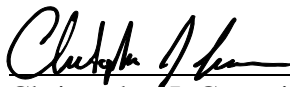
Prepared for

New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau E
625 Broadway
Albany, New York 12233-7017



Prepared by

EA Engineering, P.C. and Its Affiliate
EA Science and Technology
6712 Brooklawn Parkway, Suite 104
Syracuse, New York 13211-2158
(315) 431-4610



Christopher J. Canonica, P.E., Program Manager
EA Engineering, P.C.

31 July 2009

Date



Don E. Conan, P.E., Project Manager
EA Science and Technology

31 July 2009

Date



Scott E. Fonte, P.E., Site Manager
EA Science and Technology

31 July 2009

Date

July 2009
Revision: FINAL
EA Project No. 14474.26

CONTENTS

	<u>Page</u>
LIST OF FIGURES	
LIST OF TABLES	
LIST OF ACRONYMS	
1. INTRODUCTION.....	1
2. SITE DESCRIPTION AND HISTORY	2
2.1 Site Description.....	2
2.2 Site History	2
2.3 Previous Investigations	2
3. PRE-IRM CHARACTERIZATION	4
3.1 Building Material Sampling.....	4
3.2 Data Correlation of EA and ERM Analytical Data.....	6
3.3 Building Measurement and Quantity Estimate	6
4. DESIGN ASSUMPTIONS	9
4.1 Nature and Extent of Contamination	9
4.2 Specifications	10
4.3 Drawings	11
4.4 Applicable or Relevant and Appropriate Requirements, Permits, Codes, and Standards	12
4.4.1 Applicable or Relevant and Appropriate Requirements.....	12
4.4.2 Codes and Standards	12
4.4.3 Permitting Plan/Permits.....	12
APPENDIX A: PRELIMINARY SITE ASSESSMENT REPORT – CD FORMAT	
APPENDIX B: ENVIRONMENTAL RESOURCES MANAGEMENT REPORT	
APPENDIX C: ANALYTICAL RESULTS – CD FORMAT	
APPENDIX D: DAILY FIELD REPORTS	
APPENDIX E: ANALYTICAL DATA CORRELATION MEMORANDUM TO NYSDEC (27 JANUARY 2009)	

LIST OF FIGURES

<u>Number</u>	<u>Title</u>
1	Site location map.
2	Main floor sample location plan.
3	2 nd mezzanine sample location plan.
4	1 st mezzanine sample location plan.
5	Basement sample location plan.
6	Basement pillar grease/oil staining.

LIST OF TABLES

<u>Number</u>	<u>Title</u>
1	Summary of polychlorinated biphenyls in brick and concrete samples.

LIST OF ACRONYMS

ACM	Asbestos Containing Materials
EA	EA Engineering, P.C. and its affiliate EA Science and Technology
ERM	Environmental Resource Management
IRM	Interim Remedial Measure
NYSDEC	New York State Department of Environmental Conservation
PCB	Polychlorinated Biphenyl
ppm	Parts per million
PSA	Preliminary Site Assessment
RI	Remedial Investigation
TSCA	Toxic Substances Control Act
USEPA	United States Environmental Protection Agency

1. INTRODUCTION

The Empire Electric site is currently under the Remedial Investigation (RI) phase. In order to complete the RI, the decision was made to remove the structure as an Interim Remedial Measure (IRM) to facilitate access to site soil and groundwater. To complete this activity, the New York State Department of Environmental Conservation (NYSDEC) tasked EA Engineering, P.C., and its affiliate, EA Science and Technology (EA) to prepare Contract Documents for IRM, including oversight of the IRM, at the former Empire Electric site in Brooklyn, Kings County, New York (Figure 1). Prior to design of the IRM, an additional pre-design investigation was performed to evaluate existing on-site conditions and further characterize the building material for disposal.

Following completion of the pre-design investigation and this Basis of Design Report, EA will prepare the Contract Documents for IRM implementation at the Empire Electric site, participate in the contractor bidding process, and oversee the implementation of the IRM at the site.

This Basis of Design Report evaluates current conditions at the site and provides the design assumptions to be utilized for implementation of this work assignment. The report is organized as follows:

- **Section 1**—Introduction.
- **Section 2**—Site Description and History. This section provides a brief description of the site, its operational history, and the IRM selected for the site.
- **Section 3**—Pre-IRM Characterization. This section presents the results of the additional site investigation activities conducted at the site.
- **Section 4**—Design Assumptions. This section presents a current understanding of the nature and extent of contamination within the structure, the design assumptions to be used for preparation of design specifications, design drawings, the site management plan, and regulatory requirements for the IRM.

2. SITE DESCRIPTION AND HISTORY

The following sections outline a brief description of the site, its operational history, previous investigations, and the IRM selected for the site to facilitate completion of the RI.

2.1 SITE DESCRIPTION

The Empire Electric Company site is located at 5200 1st Avenue in Brooklyn, New York and contains a dilapidated, vacant, red brick building. The area is primarily industrial in nature, with a potato chip manufacturing plant (Utz), a New York City Department of Sanitation vehicle maintenance and storage building, an overnight courier (DHL), the former BUG - Kings County Works manufactured gas plant site, and the waterfront (Bush Terminal docks) in the general vicinity. The site consists of a 100 ft × 240 ft parcel (Section 1, Block 803, Lot 9) that is located on the southwest corner of 1st Avenue and 52nd Street. The property contains a red brick building that covers the entire lot.

2.2 SITE HISTORY

The building was constructed in 1892 by the Brooklyn City Railroad Company for use as a power plant for the municipally owned trolley system. The building was used for electrical generation until the 1930s when the trolley system was abandoned. The facility was conveyed to the city of New York in 1940. In 1951, the property was sold to Hastone Realty Corporation who subdivided the parcel into two lots (Lot 9 and Lot 6). On 5 September 1951, Lot 9 was sold to Ben Hasnas. The Hasnas family operated Empire Electric on Lot 9, the eastern two-thirds of the building, from 1951 to December 1986 when the property was sold to 5200 Enterprises. Significant polychlorinated biphenyl (PCB) contamination of Lot 9 was identified at the time of the building sale in 1986 and a cleanup was conducted by ENSI, Inc. However, PCBs at elevated levels were still present in post clean-up samples as documented by the cleanup contractor, ENSI, Inc., in their 12 December 1986 report.

2.3 PREVIOUS INVESTIGATIONS

On 28 February 1989, the NYSDEC listed the site as a Class 2 site on the New York State Registry of Inactive Hazardous Waste Sites (The Registry). In 1993, NYSDEC collected and analyzed four shallow soil samples from outside the building along 52nd Street for PCBs. The data indicated the presence of PCBs above the NYSDEC surface soil cleanup guidelines (i.e., greater than 1 part per million [ppm]). In 1999, Lawler, Matusky, & Skelly Engineers LLP conducted a Preliminary Site Assessment (PSA) of the site on behalf of the NYSDEC to determine if the building was still contaminated and whether other media (i.e., soil and groundwater) had also been contaminated by site activities; the PSA results were summarized in the Lawler, Matusky, & Skelly Engineers LLP PSA Report¹ (Appendix A). This assessment

1. Lawler, Matusky, & Skelly Engineers LLP. 1999. Preliminary Site Assessment Report Volumes I and II, Empire Electric Company, Site No. 2-24-015. December.

showed that concrete chip samples contained PCBs at concentrations up to 260,000 ppm and soil samples collected from beneath the building contained PCBs at concentrations up to 960 ppm. Additionally, PCBs were detected in groundwater collected from a downgradient monitoring well installed near the site (71 micrograms per liter [$\mu\text{g/L}$])¹.

Historical investigations at the site have documented the presence of widespread PCB impacts throughout the structure. NYSDEC retained Environmental Resources Management (ERM) to complete a RI/Feasibility Study at the site in March 2004 (Appendix B). ERM completed a draft limited RI in February 2007 that included soil borings in and around the structure, groundwater sampling, sub-slab vapor and indoor air sampling, a structural analysis and report, debris removal and disposal, and a PCB immunoassay building material survey with confirmational sampling. ERM's draft RI and Building Characterization Report concluded that groundwater at the site had not been fully characterized and that there was poor correlation between the immunoassay survey and the confirmational laboratory analytical results.

Subsequent to the draft RI, NYSDEC has concluded that building demolition is required to complete the RI at the site. Demolition and off-site disposal of the building structure and foundation will be completed as an IRM. This Basis of Design Report presents supplemental investigation data used to further characterize building materials for disposal and will be followed by a full design for bid.

3. PRE-IRM CHARACTERIZATION

EA performed the following pre-IRM design investigation activities from December 2008 to April 2009 to evaluate existing on-site conditions and further delineate the extent of contamination to support IRM design:

- Building material sampling
- Data correlation of EA and ERM analytical data
- Building measurement and quantity estimate.

Activities were completed as described in the IRM Building Investigation Activities² and the IRM Additional Building Characterization³, unless otherwise specified. Sampling locations are presented as Figures 2 through 6. A summary of sample analytical data collected is presented as Table 1. The information collected during these activities has been used to characterize building materials and to prepare disposal quantity estimates. As per the Toxic Substances Control Act (TSCA) Regulation 40 CFR 761.60, building materials having PCB concentrations > 50 ppm must be disposed of in a TSCA incinerator, TSCA chemical waste landfill, or by an United States Environmental Protection Agency (USEPA)-approved alternative method.

3.1 BUILDING MATERIAL SAMPLING

Thirty-four (34) non-aqueous building material samples were collected by EA in December 2008 and were determined to not correlate with immuno-assay sampling results obtained by ERM in April of 2006, as discussed in Section 3.2. In April 2009 EA collected an additional 132 non-aqueous building material samples. A total of 166 non-aqueous building material samples were collected by EA in December 2008 and April 2009 to assist in the completion of the IRM design evaluation and final engineering cost estimate for demolition of the structure and disposal of the Empire Electric building materials.

Building material samples included concrete material from structure floors from all building levels, brick material from the interior and exterior walls, and brick material from the large structural support pillars in the basement. Sample locations are shown on Figures 2 through 6. Table 1 includes a summary of the analytical data. The electronic data deliverable for the building material samples is presented in Appendix C. Daily Field Reports, including photographs from the building material sampling activities, are included as Appendix D.

The collected building material samples were analyzed for PCBs via USEPA method 8082. Sample analysis was performed by Chemtech Consulting Group of Mountainside, New Jersey, a New York State Department of Health certified-Environmental Laboratory Approval Program

2. EA Engineering, P.C., and Its Affiliate EA Science and Technology. 2009. Pre-Interim Remedial Measure Building Investigation Activities (2-24-015), Brooklyn, New York. December.

3. EA Engineering, P.C., and Its Affiliate EA Science and Technology. 2009. Pre-Interim Remedial Measure Additional Building Characterization (2-24-015), Brooklyn, New York. March.

laboratory and in accordance with the NYSDEC Analytical Service Protocols of June 2000, Category B deliverables.

The building material samples were collected using the following procedures:

- A 10-in. diameter area surrounding the sample location was cleaned using methanol and steel wool.
- All sampling event participants wore appropriate personal protective equipment at all times (gloves, safety glasses, half-face respirators with HEPA filters, etc.)
- A masonry bit was decontaminated prior to each sample collection.
- An electric hammer drill with the decontaminated $\frac{3}{4}$ -in diameter masonry bit was used to drill to the designated sample depth (1 in.) several times within the designated sample area.
- A new pair of disposable gloves was used for each sample collection
- For wall and pillar samples, a dust pan lined with dedicated aluminum foil was used to collect dust generated from drilling into the wall. The dust was then poured into the appropriate sample jar from the aluminum foil-lined dustpan.
- For floor samples, a dedicated natural bristle brush was used to sweep the dust generated from drilling onto the floor into a dust pan lined with dedicated tinfoil. The dust was then poured into the appropriate sample jar from the tinfoil-lined dustpan.
- All samples were labeled, handled, and packaged following the procedures described in EA's Generic Quality Assurance Project Plan, submitted to the NYSDEC on 20 June 2006 and revised in October 2006.
- Quality assurance/quality control samples were collected at the frequency detailed in the Generic Quality Assurance Project Plan submitted with the Building Characterization Work Plan.

All non-dedicated equipment and tools used to collect samples for chemical analysis were decontaminated prior to and between each sample interval using an Alconox wash and potable water rinse. Decontamination fluids were collected and stored in drums onsite. Site security issues during the site characterization activities prevented all decontamination fluids from being disposed of properly. Vandals gained access to the site and dumped some of the drums' contents into the basement. Materials that were not vandalized were disposed of by a regulated hauler.

In addition to building material samples, three samples were collected of grease/oil material found within the building. One sample (EA-BFL-164) included a soil and grease/oil mixture

from one of ERM's old soil boring holes in the basement slab (ERM SB-05). Two samples of a tar-like grease/oil material coating a majority of the basement pillars were collected. A black substance was collected in EA-BWL-162L and a yellow substance was collected in EA-BWL-163L. Analytical data are included in Table 1. Daily Field Reports in Appendix D contain photographs of the sample locations.

3.2 DATA CORRELATION OF EA AND ERM ANALYTICAL DATA

As described in a 27 January 2009 memorandum to the NYSDEC (Appendix E) EA's December 2008 data were compared to building material sample data previously collected by ERM in April of 2006. ERM collected 295 building material samples. These samples were screened using immuno-assay procedures. ERM collected confirmatory samples at 61 of these sample locations which were analyzed using USEPA method 8082. Regression analysis performed between USEPA method 8082 results and the immuno-assay results indicated that there was no correlation between the data. Therefore, it was determined that data from the immuno-assay screening obtained by ERM did not correlate to either ERM or EA data obtained using USEPA method 8082 and will not be used for characterization or design purposes. However, regression analyses did indicate that the 61 confirmatory samples collected by ERM and analyzed using USEPA method 8082 correlate with data obtained by EA and could be used for design purposes.

3.3 BUILDING MEASUREMENT AND QUANTITY ESTIMATE

Concurrent with the December 2008 building material sampling event, detailed building measurements were taken for the purpose of estimating building material disposal quantities and preparing an engineering cost estimate. The Empire Electric building is comprised of a main floor, 1st mezzanine, 2nd mezzanine, and basement levels. The structure is constructed primarily of three materials that will require offsite disposal. These include, but are not limited to, brick and masonry, concrete floor slab, and structural steel box girders and I-beams.

The main floor of the building is divided into two areas (Figure 2). The westernmost portion of the main floor is an approximate 100 ft × 80 ft area which is divided into rooms by masonry walls. The remaining eastern portion of the main floor is an approximate 100 ft × 160 ft open floor area with 17 steel box girder columns of various sizes extending through the 1st floor slab. These columns are founded in the basement and support the 2nd mezzanine level.

The 2nd mezzanine level consists of one 180 ft × 34 ft rectangular section extending over the center of the large, main floor area (Figure 3). The 2nd mezzanine is a robust structure constructed of heavy steel box girder beams overlain with a 1-ft thick concrete slab. The 1st mezzanine level consists of two 30 ft × 35 ft rectangular landings on either side of the western end of the 2nd mezzanine. These landings lead to a single 100 ft × 60 ft area at the far western end of the building (Figure 4).

The basement level is divided into two areas similar to the main floor (Figure 5). One area occupying the eastern portion of the building consists of an approximate 100 ft × 160 ft long area

reduced in workable area by 16 (two rows of eight) brick columns, each 35 ft × 9 ft that extend up to the ceiling. These columns support the main floor slab and may potentially extend below the concrete slab. The western portion of the basement consists of an approximate 100-ft × 80-ft long area divided into rooms by masonry walls

The roof of the structure is constructed of steel truss members overlain with softwood (e.g., pine or spruce) facing. It is unclear whether shingles (slate or asphaltic) are currently present.

To accurately estimate material quantities, the thickness, length, and height of all exterior and interior walls were measured, as were the thickness and areal dimensions of the concrete floor slabs throughout the structure. The approximate steel tonnage was calculated by measuring the cross-sectional area of each distinct member and multiplying by the total cumulative length of that member.

It is estimated that there is approximately 11,800 tons of brick masonry, of which 6,800 tons is made up of the basement pillar material. The remaining 5,000 tons is comprised of interior and exterior walls. There are approximately 5,200 tons of concrete slab, 7,900 tons of sub-slab soils (4-ft thick), and 1,000 tons of potentially recoverable steel for recycling. An analysis of material requiring TSCA and non-TSCA disposal is presented in the following sections and summarized in the table below.

TSCA AND NON-TSCA DISPOSAL ESTIMATES				
UPPER LEVELS				
	Total Tons	%TSCA	TSCA Tons	non-TSCA Tons
Brick Masonry above Main Floor Slab	4,600	0%	0	4,600
Mainfloor Concrete Slab	2,200	60%	1,320	880
1st Mezzanine Concrete Slab	600	0%	0	600
2nd Mezzanine Concrete Slab	600	25%	150	450
TOTAL	8,000	18%	1,470	6,530
BASEMENT				
Brick Masonry dividing walls	400	100%	400	0
Brick Masonry Pillars	6,800	100%	6,800	0
Concrete Slab	1,800	100%	1,800	0
Sub-Slab soils	7,900	100%	7,900	0
TOTAL	16,900	100%	16,900	0
GRAND TOTALS	24,900	74%	18,370	6,530
Reclaimable Steel	1,000			
General Construction Debris	100			

TOTAL ACM/PACM DISPOSAL ESTIMATES ⁴	
ACM/PACM	Approximate Amount (ft ²)
9"x 9" Green Floor Tile	453
Fire Door Insulation	21
Roof Membrane/Shingle	8,640
Transite Board Electrical Box	38

4. ERM. 2007. Limited Remedial Investigation and Building Characterization Report. February.

4. DESIGN ASSUMPTIONS

4.1 NATURE AND EXTENT OF CONTAMINATION

Results of the building material sample analysis indicate that PCB concentrations in excess of 50 ppm, the TSCA definition of PCB hazardous waste are present in 35 percent of the analyzed samples. Fifty-two of the 165 building material samples collected and analyzed using USEPA Method 8082 contained levels of PCB contamination ranging from 51 ppm to 33,000 ppm. Refer to Table 1 and Figures 2 through 5 for a data summary and sample location plans.

Sample results indicate that as much as 60 percent of the main floor concrete slab may be impacted with PCBs at concentrations above 50 ppm. PCB concentrations ranged from 3.10 ppm to 3,300 ppm, with the highest concentrations detected within the former repair and assembly area at the western end of the building (Figure 2). However, no interior or exterior brick masonry wall samples above the main floor slab elevation tested above 50 ppm. The 2nd mezzanine sample results ranged from 0.030 ppm to 170 ppm. Four concrete slab samples were above the 50 ppm TSCA definition of PCB hazardous waste, ranging from 60 ppm to 179 ppm (Figure 3). There were no samples above 50 ppm detected on the 1st mezzanine level (Figure 4).

Building material samples collected from the basement floor slab ranged from 2.0 ppm to 7,900 ppm. Twenty-nine of the 85 basement samples indicate PCB concentrations above 50 ppm. There was a single interior wall sample above 50 ppm (140 ppm) at the western end of the basement (Figure 5). Analytical results of the brick pillar samples showed PCB concentrations above 50 ppm in only 2 out of 35 samples. However, two grease/oil samples (one yellow, one black) collected from a representative pillar surface directly below the former PCB transformer storage were determined to have PCB concentrations of 11,000 ppm and 26,000 ppm, respectively. Basement brick pillar samples were taken in specific locations where these substances were not present on the brick surface in order to determine contamination of the brick beyond surficial contact with the above described grease/oil samples. The grease/oil material was found on nearly 70 percent of pillar surfaces. Areas where the grease/oil was observed to be present are considered to have corresponding PCB concentrations to the sampled grease/oil (Figure 6).

Sixty percent of the concrete slab in the main floor area and 80 percent of the concrete floor slab in the basement area are classed as hazardous according to the TSCA definition of hazardous waste for total PCBs. The grease/oil samples collected in the basement exceeded the TSCA criteria of 50 ppm total PCBs and is present on nearly 70 percent of brick pillar surfaces.

As discussed in Section 2.3, soil samples collected by the NYSDEC in 1993 and during the PSA beneath the basement floor exceeded the NYSDEC recommended soil clean-up objective for PCBs in soil at depths less than 2 ft of 1 ppm, as well as the criteria for soils at depths greater than 2 ft of 10 ppm. Two of these soil samples also exceeded the TSCA definition of hazardous waste.

An asbestos containing materials (ACM) survey conducted in October 2006 concluded that approximately 9,152 ft² of floor tile, door insulation, roof shingles, and transite board electric box are present on-site and are potential ACM. The ACM survey is documented in the Testing Mechanics "Report of Asbestos Containing Materials Inspection" dated 17 October 2006 (refer to Appendix B). Also, in October 2006, a lead based paint survey indicated that there are lead based materials present in the building (Appendix B).

4.2 SPECIFICATIONS

Specifications included in the IRM Contract Documents are likely to include, but are not limited to, the following:

- **Waste Management and Recycling.** Waste management goals include, but are not limited to, maximize non-TSCA and recyclable project waste by weight and volume, effect optimum management of solid wastes via a materials management hierarchy, and to prevent environmental pollution and damage. All waste items, including solid hazardous and non-hazardous wastes removed from the site, concrete, masonry, steel, etc. will be disposed of properly at appropriate disposal and/or recycling facilities. The Contract Documents will require bidders to submit a Waste Management and Recycling Plan as a component of their Bid Package.
- **Dewatering.** In the event that groundwater is encountered within the proposed excavated sub-slab soils, dewatering will be required. As presented in previous and the additional remedial investigations, groundwater at the site contains several analytes in excess of NYSDEC Ambient Water Quality Standards. The demolition Contractor will be required to prepare a detailed dewatering plan as part of the IRM activities.
- **Building Demolition.** This section will include, but will not be limited to, requirements for the following: Contractor Demolition Plan (sequencing); sub-slab soil excavation; Waste Management and Recycling Plan submittal; protection of the common wall with the adjoining building; protection of streets, sidewalks, neighboring buildings, and railroad spur; protection of air quality and proper removal of demolished materials including sampling, testing, and characterization of all waste materials.
- **Electrical Demolition.** Remaining electrical equipment, wiring and conduit must be decommissioned, removed, relocated, or disposed of in accordance with State and local regulations.
- **Asbestos Abatement.** This section will include removal and disposal of friable and non-friable ACM in conjunction with other site work.
- **Health and Safety.** The Contract Documents will require the Contractor to prepare a Site Specific Health and Safety Plan (HASP). During building demolition and soil excavation activities, an ambient air-monitoring program would be implemented to

measure the concentration of particulates and volatile organic compounds in ambient air in the work zone and at the perimeter of the site. Real-time volatile organic compound concentrations in ambient air would be measured using a photoionization detector equipped instrument. Real time PCB concentrations in ambient air would be estimated using particulate concentrations correlated to PCB concentrations. A Community Air Monitoring Plan that specifies the components of this program would be developed by the Contractor in accordance with the New York State Department of Health Generic Community Air Monitoring Plan contained in Appendix 1A of the Draft DER-10⁵.

- **Site Restoration.** Certified clean-fill material will be utilized to fill the excavation area and building footprint to surrounding grade elevations. Crushed aggregate or recycled concrete materials will be utilized as a surface cover upon the top of the fill materials. All fill materials will be sufficiently compacted as per design specifications within the limits of the excavation. Steel bollards and a vehicle access gate will be placed on the site perimeter to limit vehicular access to the site.

4.3 DRAWINGS

Drawings prepared for the design are likely to include, but not be limited to, the following:

- Existing conditions site plan
- Building floor plan and sample results
- Final conditions
- Details.

4.4 APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS, PERMITS, CODES, AND STANDARDS

4.4.1 Applicable or Relevant and Appropriate Requirements

Applicable or Relevant and Appropriate Requirements were developed and evaluated with regard to the interim remedial measure. The remedial measure will incorporate the appropriate engineering and monitoring controls to ensure compliance with Applicable or Relevant and Appropriate Requirements.

4.4.2 Codes and Standards

Codes and Standards will be followed. Based on the type of work performed, codes and standards that may apply include, but are not limited to the following:

- National Electrical Code (temporary power).

5. NYSDEC. 2002. Draft DER-10 Appendix 1A.

- American Society of Testing and Materials (testing and sampling methods).
- U.S. Environmental Protection Agency Standards (analytical methods).
- U.S. Environmental Protection Agency Asbestos Demolition & Renovation Compliance Monitoring Standards for compliance with National Emissions Standards for Hazardous Air Pollutants (NESHAP) – 40 CFR 61.140 through 61.157.
- The Comprehensive Environmental Response, Compensation, and Liability Act (hazardous waste remediation).
- Resource Conservation and Recovery Act (post-closure).
- Toxic Substances Control Act.
- The Code of Federal Regulations 40 CFR (hazardous material storage, transportation, and disposal)
- The Code of Federal Regulations, 40 CFR 76.1 – PCBs Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions.
- Occupational Safety and Health Administration standards, 29 CFR Part 1910.
- Hazardous Waste Operations and Emergency Response, 29 CFR Part 1910.120.
- Safety and Health Regulations for Construction, 29 CFR Part 1926.
- New York State Department of Environmental Conservation, Division of Environmental Remediation, Draft DER-10 Technical Guidance for Site Investigation and Remediation, December 2002.
- New York Codes Rules and Regulations, 6 NYCRR, Part 360 – Solid Waste Management Facilities.
- New York State Industrial Safety and Health Act standards.
- New York City Administrative Code, Title 24, Chapter 1 and stringent of the: Rules of the City of New York, Title 15, Chapter 1, or New York State Industrial Code, Rule 56 (for asbestos containing materials management during demolition or renovation of buildings).
- New York City Administrative Code Title 24, Chapter 2 and Rules of the City of New York Title 15, Chapter 6,7; and 28, 29, 30 (for noise pollution control).

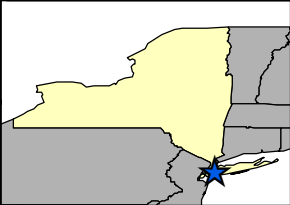
- New York City Administrative Code, Title 24, Chapter 7 and Rules of the City of New York, Title 15, Chapter 41 (for hazardous materials and spills).
- New York City Construction Code, including New York City Building Code – Chapter 33 (Safeguards during Construction and Demolition).
- New York City Air Pollution Control Code.

4.4.3 Permitting Plan/ Permits

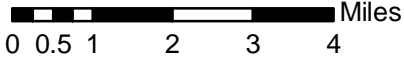
The remedial action contractors will be required to obtain any work permits needed, including building or electric permits at the municipal level. However, since this is a State Superfund site with non-jurisdictional building, it may not be subject to all the permit requirements. The substantive requirements of all permits typically required will be met; however, a permit issued by the governing agency will not be necessary to begin or complete the work. Substantive requirements of the following permits are anticipated to be met during design and construction of the remedy:

- General construction and electric permits, including all relevant permits from the New York City Department of Buildings and compliance with their Guides and Publications on Demolition Safety:
(http://www.nyc.gov/html/dob/html/guides/demolition_safety.shtml)
- Sidewalk opening permits.
- Asbestos abatement permit from New York State Department of Labor.
- New York City Department of Environmental Protection registration for noise pollution control prior to demolition activities.
- State Pollutant Discharge Elimination System for stormwater management and discharge
- Solid and hazardous waste management and transport permits
- Waste transporter permits
- Air pollution control permits.

Because intrusive work will not be performed within 100 ft of a state-listed freshwater wetland, a NYSDEC Freshwater Wetlands Permit will not be required for this action.



Legend
 ★ Site Location



Source: NYSGIS Clearinghouse



EMPIRE ELECTRIC
 WORK ASSIGNMENT
 BROOKLYN, NEW YORK

FIGURE 1
 SITE LOCATION MAP

PROJECT MGR:
 DFC

DESIGNED BY:
 RSC

CREATED BY:
 MJS

CHECKED BY:
 SEF

SCALE:
 AS SHOWN

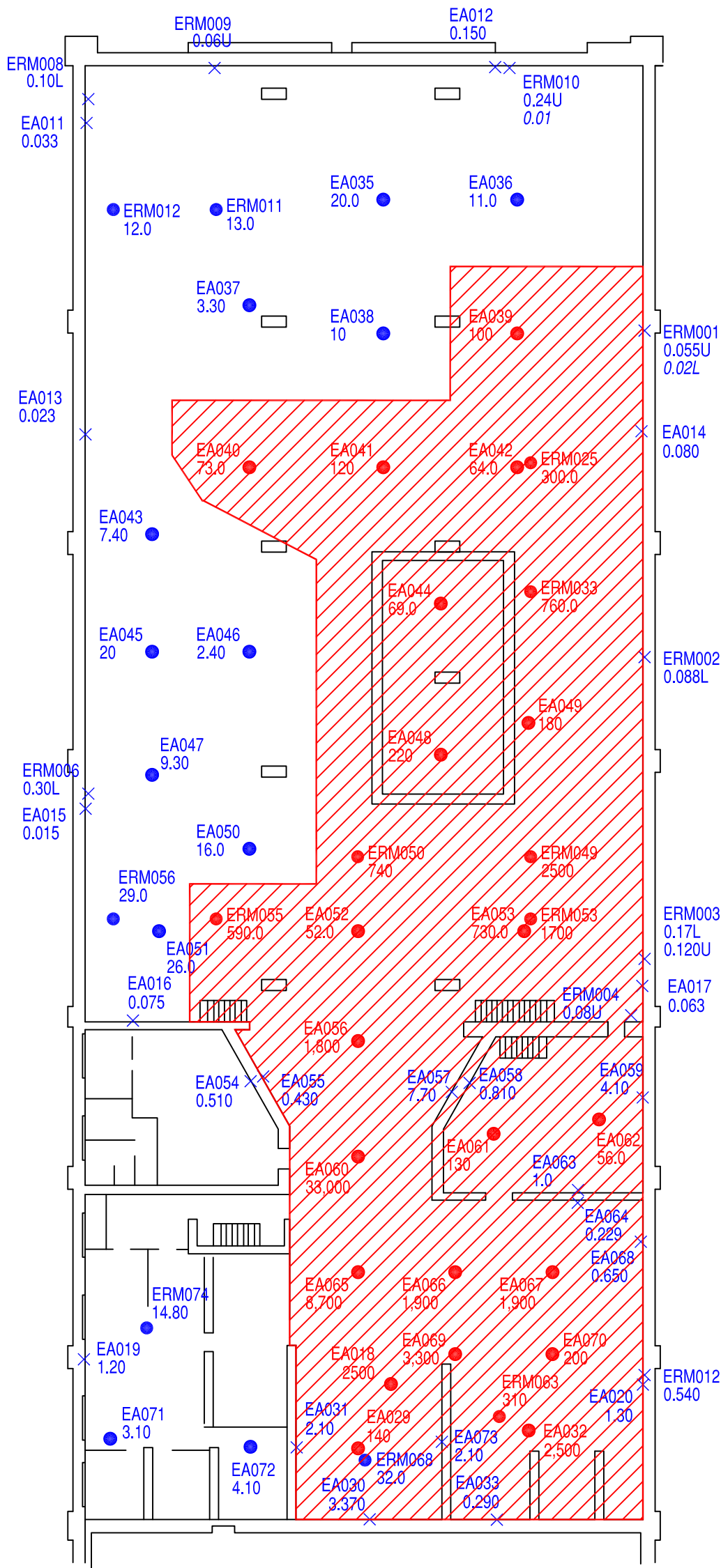
DATE:
 JULY 2009

PROJECT NO:
 14474.26

FILE NO:
 GIS/PROJECTS/
 FIGURE1.MXD

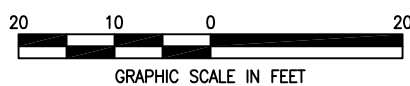
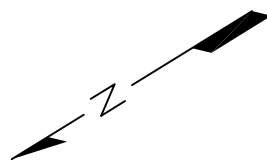
1st AVENUE

52nd STREET



NOTES

SAMPLE DESIGNATION NUMBER
 WALL ID: EA-1WL-LXXX
 FLOOR ID: EA-1FL-XXX
 L: LOWER WALL SAMPLE (0 - 4 1/2 FOOT WALL HEIGHT)
 U: UPPER WALL SAMPLE (GREATER THAN 15 FOOT WALL HEIGHT) PCB:
 POLYCHLORINATED BIPHENYL
 ppm: PARTS PER MILLION
 EA: EA SCIENCE AND TECHNOLOGY, INC. (12/08 & 4/09)
 ERM: ERM REMEDIATION AND CONSTRUCTION MANAGEMENT (4/06)
 WALL AND FLOOR SAMPLING LOCATIONS
 DESIGNATED BY NUMBER ONLY ON MAPS
 FOR SPACE PURPOSES.



LEGEND

- EA003 EA SAMPLE NUMBER
- ERM003 ERM SAMPLE NUMBER
- X WALL SAMPLE
- FLOOR SAMPLE
- TSCA > 50 ppm (RED)
- NON-TSCA < 50 ppm (BLUE)
- 0.17 PCB CONCENTRATION
- 0.02 PCB CONCENTRATION AT 1/4" DEPTH
- ESTIMATED FLOOR SLAB > 50 ppm
- OPEN SPACE ABOVE MAIN FLOOR



PREPARED BY:
 EA ENGINEERING, P.C.
 AND ITS AFFILIATE
 EA SCIENCE AND
 TECHNOLOGY

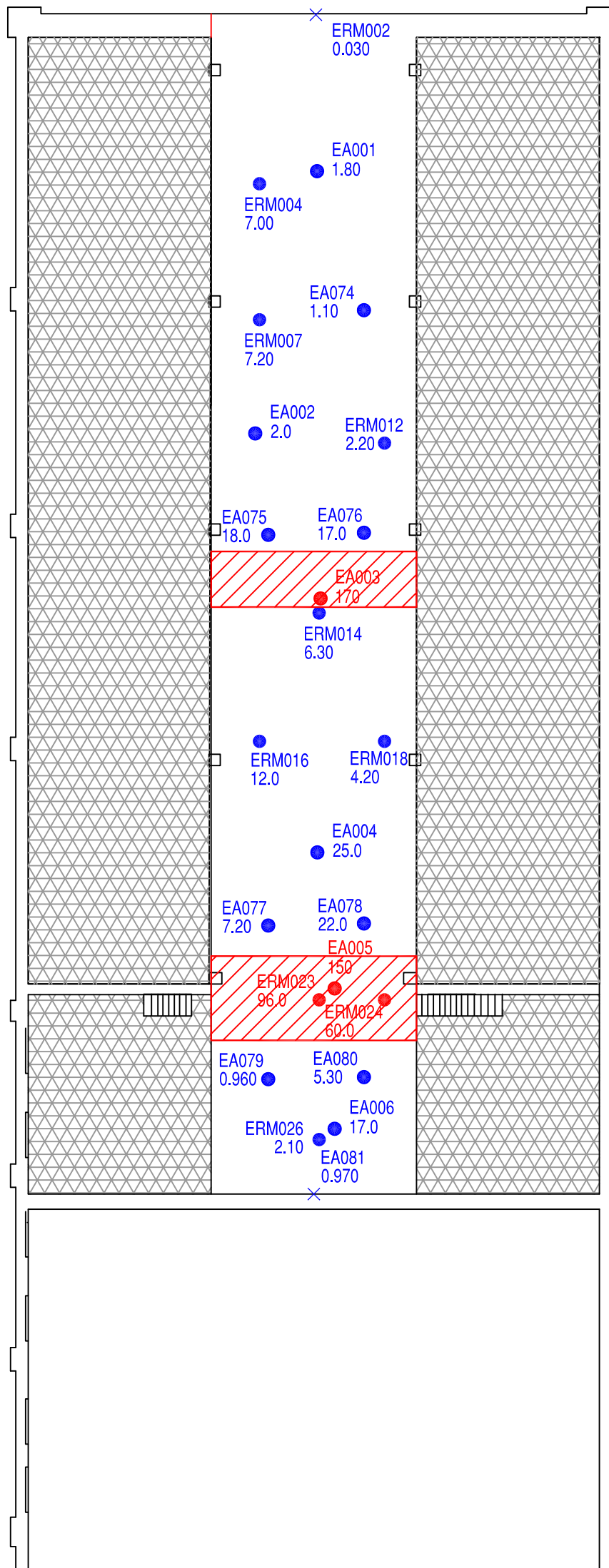
EMPIRE ELECTRIC COMPANY
 NYSDEC Site #2-24-015
 Brooklyn, NY

PRE-INTERIM REMEDIAL MEASURE
 BASIS OF DESIGN REPORT
 MAIN FLOOR SAMPLE LOCATION PLAN

PROJECT MGR. DFC	DESIGNED BY SEF	DRAWN BY SEF	CHECKED BY RSC	DATE JULY 2009	SCALE as shown	PROJECT NO. 1447426.0002	FILE NAME EMPIRE_BC.DWG	DRAWING NO.	FIGURE 2 OF 6
---------------------	--------------------	-----------------	-------------------	-------------------	-------------------	-----------------------------	----------------------------	-------------	------------------

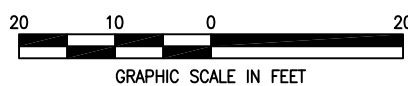
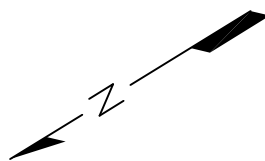
1st AVENUE

52nd STREET



NOTES

SAMPLE DESIGNATION NUMBER
 WALL ID: EA-1WL-LXXX
 FLOOR ID: EA-1FL-XXX
 L: LOWER WALL SAMPLE (0 - 4 1/2 FOOT WALL HEIGHT)
 U: UPPER WALL SAMPLE (GREATER THAN 15 FOOT WALL HEIGHT) PCB:
 POLYCHLORINATED BIPHENYL
 ppm: PARTS PER MILLION
 EA: EA SCIENCE AND TECHNOLOGY, INC. (12/08 & 4/09)
 ERM: ERM REMEDIATION AND CONSTRUCTION MANAGEMENT (4/06)
 WALL AND FLOOR SAMPLING LOCATIONS
 DESIGNATED BY NUMBER ONLY ON MAPS
 FOR SPACE PURPOSES.



LEGEND

- EA003 EA SAMPLE NUMBER
- ERM003 ERM SAMPLE NUMBER
- X WALL SAMPLE
- FLOOR SAMPLE
- TSCA > 50 ppm (RED)
- NON-TSCA < 50 ppm (BLUE)
- 0.17 PCB CONCENTRATION
- 0.02 PCB CONCENTRATION AT 1/4" DEPTH
- [Red Hatched Box] ESTIMATED FLOOR SLAB > 50 ppm
- [Cross-hatched Box] OPEN SPACE ABOVE MAIN FLOOR



PREPARED BY:
 EA ENGINEERING, P.C.
 AND ITS AFFILIATE
 EA SCIENCE AND
 TECHNOLOGY

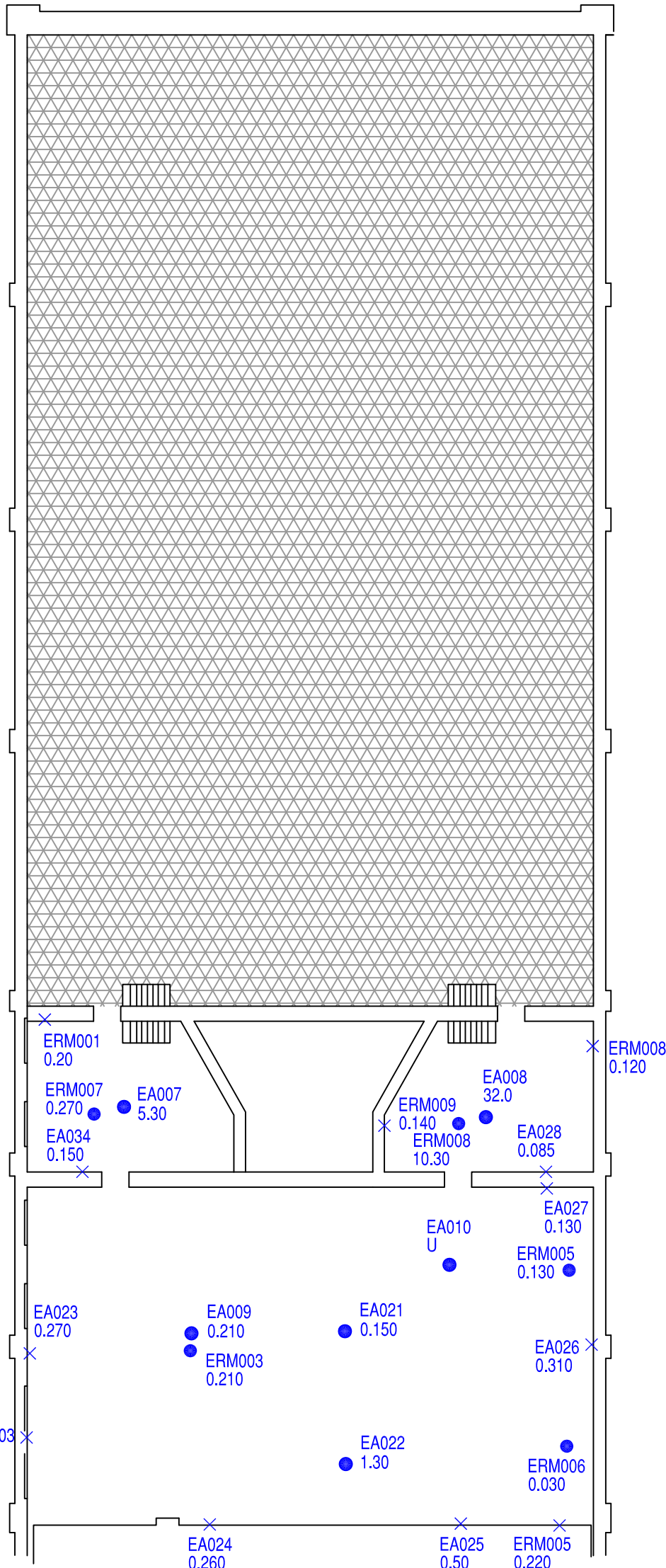
EMPIRE ELECTRIC COMPANY
 NYSDEC Site #2-24-015
 Brooklyn, NY

PRE-INTERIM REMEDIAL MEASURE
 BASIS OF DESIGN REPORT
 2ND MEZZANINE SAMPLE LOCATION PLAN

PROJECT MGR. DFC	DESIGNED BY SEF	DRAWN BY SEF	CHECKED BY RSC	DATE JULY 2009	SCALE as shown	PROJECT NO. 1447426.0002	FILE NAME EMPIRE_BC.DWG	DRAWING NO.	FIGURE 3 OF 6
---------------------	--------------------	-----------------	-------------------	-------------------	-------------------	-----------------------------	----------------------------	-------------	------------------

1st AVENUE

52nd STREET



NOTES

SAMPLE DESIGNATION NUMBER
 WALL ID: EA-1WL-LXXX
 FLOOR ID: EA-1FL-XXX
 L: LOWER WALL SAMPLE (0 - 4 1/2 FOOT WALL HEIGHT)
 U: UPPER WALL SAMPLE (GREATER THAN 15 FOOT WALL HEIGHT) PCB:
 POLYCHLORINATED BIPHENYL
 ppm: PARTS PER MILLION
 EA: EA SCIENCE AND TECHNOLOGY, INC. (12/08 & 4/09)
 ERM: ERM REMEDIATION AND CONSTRUCTION MANAGEMENT (4/06)
 WALL AND FLOOR SAMPLING LOCATIONS
 DESIGNATED BY NUMBER ONLY ON MAPS
 FOR SPACE PURPOSES.

LEGEND

- EA003 EA SAMPLE NUMBER
- ERM003 ERM SAMPLE NUMBER
- X WALL SAMPLE
- FLOOR SAMPLE
- TSCA > 50 ppm (RED)
- NON-TSCA < 50 ppm (BLUE)
- 0.17 PCB CONCENTRATION
- 0.02 PCB CONCENTRATION AT 1/4" DEPTH
- ESTIMATED FLOOR SLAB > 50 ppm
- OPEN SPACE ABOVE MAIN FLOOR



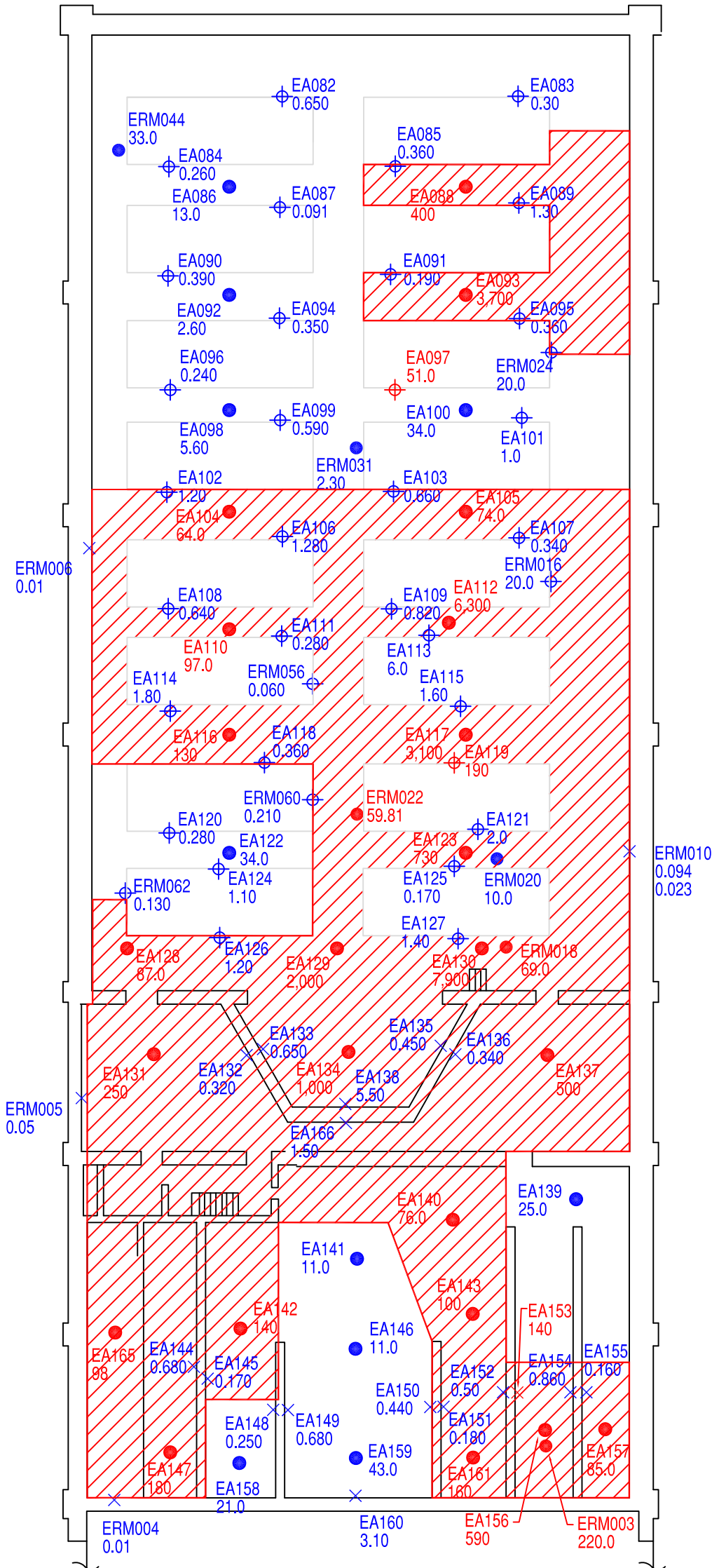
PREPARED BY:
 EA ENGINEERING, P.C.
 AND ITS AFFILIATE
 EA SCIENCE AND
 TECHNOLOGY

EMPIRE ELECTRIC COMPANY
 NYSDEC Site #2-24-015
 Brooklyn, NY

PRE-INTERIM REMEDIAL MEASURE
 BASIS OF DESIGN REPORT
 1ST MEZZANINE SAMPLE LOCATION PLAN

PROJECT MGR. DFC	DESIGNED BY SEF	DRAWN BY SEF	CHECKED BY RSC	DATE JULY 2009	SCALE as shown	PROJECT NO. 1447426.0002	FILE NAME EMPIRE_BC.DWG	DRAWING NO.	FIGURE 4 OF 6
---------------------	--------------------	-----------------	-------------------	-------------------	-------------------	-----------------------------	----------------------------	-------------	------------------

52nd STREET

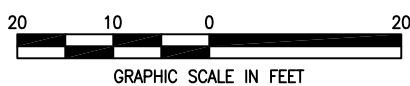
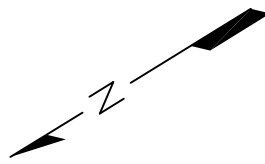


LEGEND

- EA003 EA SAMPLE NUMBER
- ERM003 ERM SAMPLE NUMBER
- X WALL SAMPLE
- FLOOR SAMPLE
- TSCA > 50 ppm (RED)
- NON-TSCA < 50 ppm (BLUE)
- 0.17 PCB CONCENTRATION
- 0.02 PCB CONCENTRATION AT 1/4" DEPTH
- ▨ ESTIMATED FLOOR SLAB > 50 ppm

NOTES

SAMPLE DESIGNATION NUMBER
 WALL ID: EA-1WL-LXXX
 FLOOR ID: EA-1FL-XXX
 L: LOWER WALL SAMPLE (0 - 4 1/2 FOOT WALL HEIGHT)
 U: UPPER WALL SAMPLE (GREATER THAN 15 FOOT WALL HEIGHT) PCB:
 POLYCHLORINATED BIPHENYL
 ppm: PARTS PER MILLION
 EA: EA SCIENCE AND TECHNOLOGY, INC. (12/08 & 4/09)
 ERM: ERM REMEDIATION AND CONSTRUCTION MANAGEMENT (4/06)
 WALL AND FLOOR SAMPLING LOCATIONS
 DESIGNATED BY NUMBER ONLY ON MAPS
 FOR SPACE PURPOSES.



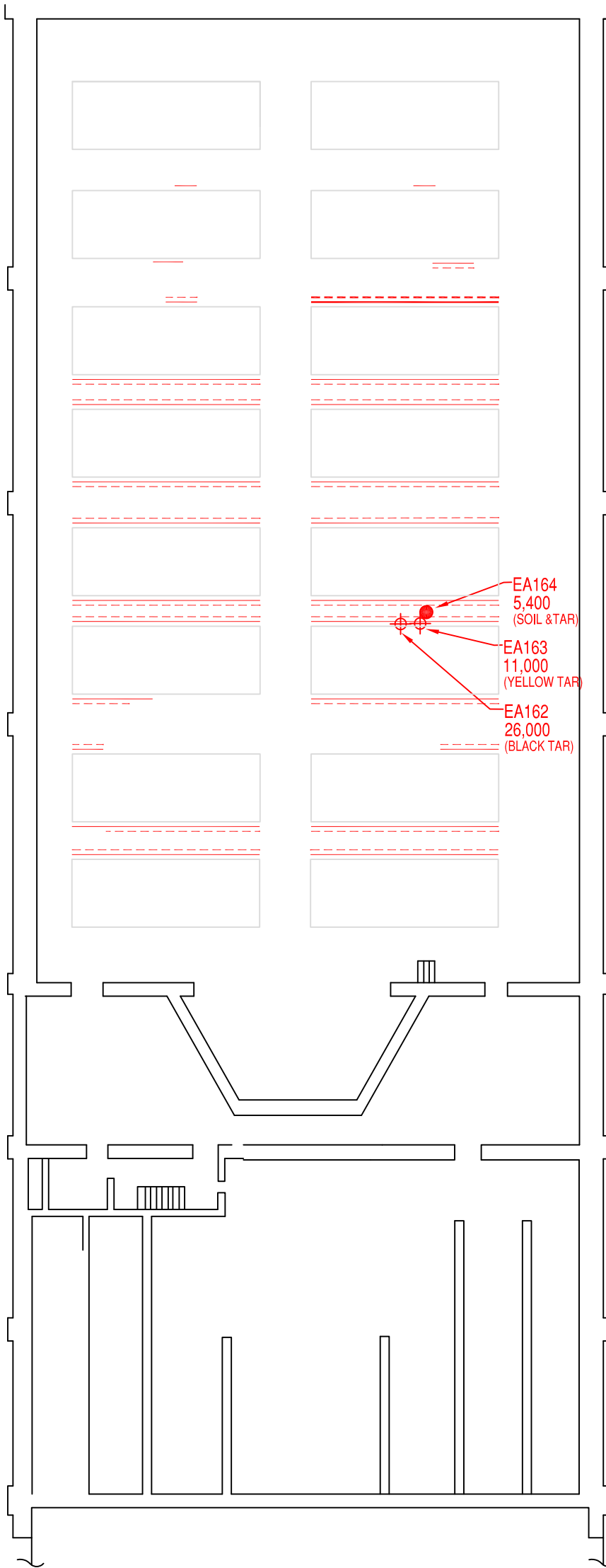
PREPARED BY:
 EA ENGINEERING, P.C.
 AND ITS AFFILIATE
 EA SCIENCE AND
 TECHNOLOGY

EMPIRE ELECTRIC COMPANY
 NYSDEC Site #2-24-015
 Brooklyn, NY

PRE-INTERIM REMEDIAL MEASURE
 BASIS OF DESIGN REPORT
 BASEMENT SAMPLE LOCATION PLAN

PROJECT MGR. DFC	DESIGNED BY SEF	DRAWN BY SEF	CHECKED BY RSC	DATE JULY 2009	SCALE as shown	PROJECT NO. 1447426.0002	FILE NAME EMPIRE_BC.DWG	DRAWING NO.	FIGURE 5 OF 6
---------------------	--------------------	-----------------	-------------------	-------------------	-------------------	-----------------------------	----------------------------	-------------	------------------

52nd STREET



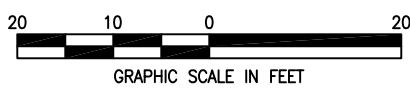
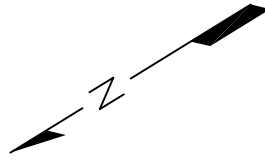
EA164
5,400
(SOIL & TAR)

EA163
11,000
(YELLOW TAR)

EA162
26,000
(BLACK TAR)

NOTES

— SAMPLE DESIGNATION NUMBER
 WALL ID: EA-1WL-LXXX
 — SAMPLE DESIGNATION NUMBER
 FLOOR ID: EA-1FL-XXX
 L: LOWER WALL SAMPLE (0 - 4 1/2 FOOT WALL HEIGHT)
 U: UPPER WALL SAMPLE (GREATER THAN 15 FOOT WALL HEIGHT) PCB:
 POLYCHLORINATED BIPHENYL
 ppm: PARTS PER MILLION
 EA: EA SCIENCE AND TECHNOLOGY, INC. (12/08 & 4/09)
 ERM: ERM REMEDIATION AND CONSTRUCTION MANAGEMENT (4/06)
 WALL AND FLOOR SAMPLING LOCATIONS
 DESIGNATED BY NUMBER ONLY ON MAPS
 FOR SPACE PURPOSES.



LEGEND

- EA003 EA SAMPLE NUMBER
- ERM003 ERM SAMPLE NUMBER
- × WALL SAMPLE
- FLOOR SAMPLE
- ⊕ PILLAR SAMPLE
- TSCA > 50 ppm (RED)
- NON-TSCA < 50 ppm (BLUE)
- 0.17 PCB CONCENTRATION
- 0.02 PCB CONCENTRATION AT 1/4" DEPTH
- YELLOW TAR-LIKE SMEARING
- BLACK TAR-LIKE SMEARING



PREPARED BY:
 EA ENGINEERING, P.C.
 AND ITS AFFILIATE
 EA SCIENCE AND
 TECHNOLOGY

EMPIRE ELECTRIC COMPANY
 NYSDEC Site #2-24-015
 Brooklyn, NY

PRE-INTERIM REMEDIAL MEASURE
 BASIS OF DESIGN REPORT
 BASEMENT PILLAR GREASE/OIL STAINING

PROJECT MGR. DFC	DESIGNED BY SEF	DRAWN BY SEF	CHECKED BY RSC	DATE JULY 2009	SCALE as shown	PROJECT NO. 1447426.0002	FILE NAME EMPIRE_BC.DWG	DRAWING NO.	FIGURE 6 OF 6
---------------------	--------------------	-----------------	-------------------	-------------------	-------------------	-----------------------------	----------------------------	-------------	------------------

TABLE 1 SUMMARY OF POLYCHLORINATED BIPHENYLS IN BRICK AND CONCRETE SAMPLES

Parameters List via USEPA Method 8082	Sample ID	224015EA001	224015EA002	224015EA003	224015EA004	224015EA005	224015EA006	224015EA007	224015EA008	6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)							
	Lab ID	Z5889-01	Z5889-02	Z5889-03	Z5889-04	Z5889-05	Z5889-06	Z5889-07	Z5889-08								
	Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil								
	Sample Date	12/16/2008	12/16/2008	12/16/2008	12/16/2008	12/16/2008	12/16/2008	12/16/2008	12/16/2008								
Aroclor-1016	(mg/kg)	<0.0040	U	<0.00410	U	<0.00420	U	<0.0040	U	<0.00380	U	<0.0040	U	<0.00390	U	NA	
Aroclor-1221	(mg/kg)	<0.00490	U	<0.0050	U	<0.00510	U	<0.00480	U	<0.00490	U	<0.00490	U	<0.00480	U	NA	
Aroclor-1232	(mg/kg)	<0.00510	U	<0.00520	U	<0.00540	U	<0.00510	U	<0.00520	U	<0.00490	U	<0.00510	U	NA	
Aroclor-1242	(mg/kg)	<0.00230	U	<0.00230	U	<0.00240	U	<0.00220	U	<0.00230	U	<0.00220	U	<0.00220	U	NA	
Aroclor-1248	(mg/kg)	<0.00490	U	<0.0050	U	<0.00520	U	<0.00490	U	<0.0050	U	<0.00470	U	<0.00490	U	NA	
Aroclor-1254	(mg/kg)	<0.0050	U	<0.00510	U	<0.00530	U	<0.0050	U	<0.0050	U	<0.00480	U	<0.0050	U	NA	
Aroclor-1260	(mg/kg)	1.80	D	2.0	D	170	D	25.0	D	150	D	17.0	D	5.30	DP	32.0	D
Aroclor (Total)	(mg/kg)	1.80	D	2.0	D	170	D	25.0	D	150	D	17.0	D	5.30	DP	32.0	D
Parameters List via USEPA Method 8082	Sample ID	224015EA009	224015EA010	224015EA011	224015EA012	224015EA013	224015EA014	224015EA015	224015EA016	6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)							
	Lab ID	Z5889-09	Z5889-10	Z5889-11	Z5889-12	Z5889-15	Z5889-16	Z5889-17	Z5889-18								
	Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil								
	Sample Date	12/16/2008	12/16/2008	12/15/2008	12/15/2008	12/15/2008	12/15/2008	12/15/2008	12/15/2008								
Aroclor-1016	(mg/kg)	<0.0040	U	<0.00410	U	<0.00390	U	<0.00370	U	<0.00380	U	<0.00380	U	<0.00380	U	NA	
Aroclor-1221	(mg/kg)	<0.00490	U	<0.0050	U	<0.00470	U	<0.00460	U	<0.00460	U	<0.00450	U	<0.00460	U	NA	
Aroclor-1232	(mg/kg)	<0.00520	U	<0.00520	U	<0.00490	U	<0.00480	U	<0.00490	U	<0.00480	U	<0.00490	U	NA	
Aroclor-1242	(mg/kg)	<0.00230	U	<0.00230	U	<0.00220	U	<0.00210	U	<0.00210	U	<0.00210	U	<0.00210	U	NA	
Aroclor-1248	(mg/kg)	<0.0050	U	<0.0050	U	<0.00480	U	<0.00460	U	<0.00470	U	<0.00460	U	<0.00470	U	NA	
Aroclor-1254	(mg/kg)	<0.0050	U	<0.00510	U	<0.00480	U	<0.00470	U	<0.00480	U	<0.00470	U	<0.00470	U	NA	
Aroclor-1260	(mg/kg)	0.210		<0.0040	U	0.0330	P	0.150		0.0230	P	0.080	P	0.0150	JP	0.0750	P
Aroclor (Total)	(mg/kg)	0.210		NA		0.0330	P	0.150		0.0230	P	0.080	P	0.0150	JP	0.0750	P
Parameters List via USEPA Method 8082	Sample ID	224015EA017	224015EA018	224015EA019	224015EA020	224015EA021	224015EA022	224015EA023	224015EA024	6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)							
	Lab ID	Z5889-19	Z5889-20	Z5889-21	Z5889-22	Z5890-01	Z5890-02	Z5890-03	Z5890-04								
	Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil								
	Sample Date	12/15/2008	12/16/2008	12/16/2008	12/16/2008	12/16/2008	12/16/2008	12/16/2008	12/16/2008								
Aroclor-1016	(mg/kg)	<0.00370	U	<0.00380	U	<0.00440	U	<0.00440	U	<0.00390	U	<0.0040	U	<0.00430	U	<0.00380	U
Aroclor-1221	(mg/kg)	<0.00460	U	<0.00470	U	<0.00540	U	<0.00540	U	<0.00470	U	<0.00480	U	<0.00530	U	<0.00460	U
Aroclor-1232	(mg/kg)	<0.00480	U	<0.00490	U	<0.00560	U	<0.00560	U	<0.00510	U	<0.00510	U	<0.00550	U	<0.00480	U
Aroclor-1242	(mg/kg)	<0.00210	U	<0.00220	U	<0.00250	U	<0.00250	U	<0.00220	U	<0.00220	U	<0.00240	U	<0.00210	U
Aroclor-1248	(mg/kg)	<0.00460	U	<0.00470	U	<0.00540	U	<0.00540	U	<0.00480	U	<0.00490	U	<0.00530	U	<0.00460	U
Aroclor-1254	(mg/kg)	<0.00470	U	<0.00480	U	<0.00550	U	<0.00550	U	<0.00490	U	<0.0050	U	<0.00540	U	<0.00470	U
Aroclor-1260	(mg/kg)	0.0630	P	2.500	D	1.20	D	1.30	DP	0.150		1.30	D	0.270		0.260	
Aroclor (Total)	(mg/kg)	0.0630	P	2.500	D	1.20	D	1.30	DP	0.150		1.30	D	0.270		0.260	
Parameters List via USEPA Method 8082	Sample ID	224015EA025	224015EA026	224015EA027	224015EA028	224015EA029	224015EA030	224015EA031	224015EA032	6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)							
	Lab ID	Z5890-05D	Z5890-08	Z5890-09	Z5890-10	Z5890-11DL	Z5890-12	Z5890-13	Z5890-14								
	Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil								
	Sample Date	12/16/2008	12/16/2008	12/16/2008	12/16/2008	12/17/2008	12/17/2008	12/17/2008	12/17/2008								
Aroclor-1016	(mg/kg)	<0.00370	U	<0.00420	U	<0.00380	U	<0.00380	U	<0.00380	U	<0.00390	U	<0.00380	U	<0.00380	U
Aroclor-1221	(mg/kg)	<0.00450	U	<0.00520	U	<0.00460	U	<0.00460	U	<0.00460	U	<0.00480	U	<0.00460	U	<0.00460	U
Aroclor-1232	(mg/kg)	<0.00480	U	<0.00540	U	<0.00480	U	<0.00490	U	<0.00480	U	<0.0050	U	<0.00480	U	<0.00490	U
Aroclor-1242	(mg/kg)	<0.00210	U	<0.00240	U	<0.00210	U	<0.00210	U	<0.00210	U	<0.00220	U	<0.00210	U	<0.00210	U
Aroclor-1248	(mg/kg)	<0.00460	U	<0.00520	U	<0.00460	U	<0.00470	U	<0.00460	U	<0.00460	U	<0.00460	U	<0.00470	U
Aroclor-1254	(mg/kg)	<0.00470	U	<0.00530	U	<0.00470	U	<0.00480	U	<0.00470	U	2.40	DP	<0.0050	U	<0.00480	U
Aroclor-1260	(mg/kg)	0.50	D	0.310	D	0.130		0.0850		140	D	0.970	D	2.10	D	2.500	D
Aroclor (Total)	(mg/kg)	0.50	D	0.310	D	0.130		0.0850		140	D	3.370	DP	2.10	D	2.500	D
NOTE: USEPA = United States Environmental Protection Agency NYCRR = New York Code of Rules and Regulations ppm = milligrams per kilogram (mg/kg) U = Indicates the compound was analyzed for but not detected NA = Not Applicable. D = Compounds were identified in an analysis at a secondary dilution factor P = There is >25% difference for detected concentrations between the two GC columns J = Indicates an estimated value Bold values indicate exceedances. All analyses were provided by Chemtech. Data Validation services were provided by Environmental Data Services.																	

TABLE 1 SUMMARY OF POLYCHLORINATED BIPHENYLS IN BRICK AND CONCRETE SAMPLES

Parameters List via USEPA Method 8082	Sample ID	224015EA033	224015EA034	224015-EA-MFL-035	224015-EA-MFL-036	224015-EA-MFL-037	224015-EA-MFL-038	224015-EA-MFL-039	224015-EA-MFL-040	6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)								
	Lab ID	Z5890-15	Z5890-18	A2360-11	A2363-07	A2360-12	A2362-06	A2360-13	A2360-16									
	Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil									
	Sample Date	12/17/2008	12/16/2008	4/15/2009	4/17/2009	4/15/2009	4/15/2009	4/15/2009	4/15/2009									
Aroclor-1016	(mg/kg)	<0.00380	U	<0.00390	U	<0.00390	U	<0.0040	U	<0.00390	U	<0.0040	U	NA				
Aroclor-1221	(mg/kg)	<0.00460	U	<0.00470	U	<0.00470	U	<0.00480	U	<0.00490	U	<0.00480	U	<0.00490	U	NA		
Aroclor-1232	(mg/kg)	<0.00480	U	<0.00490	U	<0.0050	U	<0.0050	U	<0.00510	U	<0.0050	U	<0.00510	U	NA		
Aroclor-1242	(mg/kg)	<0.00210	U	<0.00220	U	<0.00220	U	<0.00230	U	<0.00230	U	<0.00220	U	<0.00220	U	NA		
Aroclor-1248	(mg/kg)	<0.00460	U	<0.00480	U	<0.00480	U	<0.00480	U	<0.00490	U	<0.00480	U	<0.00490	U	NA		
Aroclor-1254	(mg/kg)	<0.00470	U	<0.00480	U	<0.00480	U	<0.00490	U	<0.0050	U	<0.00490	U	<0.0050	U	NA		
Aroclor-1260	(mg/kg)	0.290	D	0.150		20	D	11.0	D	3.30	D	10	D	100	D	73.0	D	NA
Aroclor (Total)	(mg/kg)	0.290	D	0.150		20	D	11.0	D	3.30	D	10	D	100	D	73.0	D	50

Parameters List via USEPA Method 8082	Sample ID	224015-EA-MFL-041	224015-EA-MFL-042	224015-EA-MFL-043	224015-EA-MFL-044	224015-EA-MFL-045	224015-EA-MFL-046	224015-EA-MFL-047	224015-EA-MFL-048	6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)								
	Lab ID	A2360-15	A2360-14	A2362-05	A2360-18	A2362-04	A2360-17	A2362-03	A2360-20									
	Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil									
	Sample Date	4/15/2009	4/15/2009	4/15/2009	4/15/2009	4/15/2009	4/15/2009	4/15/2009	4/15/2009									
Aroclor-1016	(mg/kg)	<0.00390	U	<0.0040	U	<0.0390	U	<0.0390	U	<0.00390	U	<0.00390	U	<0.00390	U	NA		
Aroclor-1221	(mg/kg)	<0.00480	U	<0.00490	U	<0.0480	U	<0.00470	U	<0.0480	U	<0.00480	U	<0.0470	U	<0.00470	U	NA
Aroclor-1232	(mg/kg)	<0.00510	U	<0.00510	U	<0.050	U	<0.0050	U	<0.050	U	<0.0050	U	<0.050	U	<0.0050	U	NA
Aroclor-1242	(mg/kg)	<0.00220	U	<0.00220	U	<0.0220	U	<0.00220	U	<0.0220	U	<0.00220	U	<0.0220	U	<0.00220	U	NA
Aroclor-1248	(mg/kg)	<0.00490	U	<0.00490	U	<0.0480	U	<0.00480	U	<0.0480	U	<0.00480	U	<0.0480	U	<0.00480	U	NA
Aroclor-1254	(mg/kg)	<0.00490	U	<0.0050	U	<0.0490	U	<0.00490	U	<0.0490	U	<0.00490	U	<0.0480	U	<0.00480	U	NA
Aroclor-1260	(mg/kg)	120	D	64.0	D	7.40	D	69.0	D	20	D	2.40	D	9.30	D	220	D	NA
Aroclor (Total)	(mg/kg)	120	D	64.0	D	7.40	D	69.0	D	20	D	2.40	D	9.30	D	220	D	50

Parameters List via USEPA Method 8082	Sample ID	224015-EA-MFL-049	224015-EA-MFL-050	224015-EA-MFL-051	224015-EA-MFL-052	224015-EA-MFL-053	224015-EA-MWL-054L	224015-EA-MWL-055L	224015-EA-MFL-056	6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)								
	Lab ID	A2360-19	A2362-01	A2362-02	A2362-07	A2362-08	A2361-16	A2361-14	A2361-18									
	Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil									
	Sample Date	4/15/2009	4/15/2009	4/15/2009	4/15/2009	4/15/2009	4/15/2009	4/15/2009	4/15/2009									
Aroclor-1016	(mg/kg)	<0.00390	U	<0.040	U	<0.0380	U	<0.0390	U	<0.0420	U	<0.00430	U	<0.0040	U	NA		
Aroclor-1221	(mg/kg)	<0.00480	U	<0.0490	U	<0.0470	U	<0.0470	U	<0.0470	U	<0.0520	U	<0.00530	U	<0.00490	U	NA
Aroclor-1232	(mg/kg)	<0.0050	U	<0.0510	U	<0.0490	U	<0.050	U	<0.0490	U	<0.0540	U	<0.00550	U	<0.00520	U	NA
Aroclor-1242	(mg/kg)	<0.00220	U	<0.0220	U	<0.0210	U	<0.0220	U	<0.0220	U	<0.0240	U	<0.00240	U	<0.00230	U	NA
Aroclor-1248	(mg/kg)	<0.00480	U	<0.0490	U	<0.0470	U	<0.0480	U	<0.0480	U	<0.0520	U	<0.00530	U	<0.0050	U	NA
Aroclor-1254	(mg/kg)	<0.00490	U	<0.050	U	<0.0480	U	<0.0490	U	<0.0480	U	0.240		0.210	D	<0.0050	U	NA
Aroclor-1260	(mg/kg)	180	D	16.0	D	26.0	D	52.0	D	730	D	0.270		0.220	D	1,800	D	NA
Aroclor (Total)	(mg/kg)	180	D	16.0	D	26.0	D	52.0	D	730	D	0.510		0.430	D	1,800	D	50

Parameters List via USEPA Method 8082	Sample ID	224015-EA-MWL-057L	224015-EA-MWL-058L	224015-EA-MWL-059L	224015-EA-MFL-060	224015-EA-MFL-061	224015-EA-MFL-062	224015-EA-MWL-063L	224015-EA-MWL-064L	6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)								
	Lab ID	A2361-17	A2361-21	A2361-20	A2361-19	A2362-10	A2362-09	A2362-19	A2361-04									
	Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil									
	Sample Date	4/15/2009	4/15/2009	4/15/2009	4/15/2009	4/15/2009	4/15/2009	4/16/2009	4/15/2009									
Aroclor-1016	(mg/kg)	<0.00380	U	<0.00390	U	<0.00380	U	<0.040	U	<0.0370	U	<0.00430	U	<0.00430	U	NA		
Aroclor-1221	(mg/kg)	<0.00460	U	<0.00470	U	<0.00460	U	<0.480	U	<0.0480	U	<0.0480	U	<0.00450	U	<0.00530	U	NA
Aroclor-1232	(mg/kg)	<0.00480	U	<0.0050	U	<0.00480	U	<0.510	U	<0.050	U	<0.0510	U	<0.00480	U	<0.00560	U	NA
Aroclor-1242	(mg/kg)	<0.00210	U	<0.00220	U	<0.00210	U	<0.220	U	<0.0220	U	<0.0220	U	<0.00210	U	<0.00240	U	NA
Aroclor-1248	(mg/kg)	<0.00460	U	<0.00480	U	<0.00460	U	<0.490	U	<0.0480	U	<0.0490	U	<0.00460	U	<0.00530	U	NA
Aroclor-1254	(mg/kg)	4.20	D	0.410	D	<0.00470	U	<0.50	U	<0.0490	U	<0.050	U	<0.00470	U	0.0990		NA
Aroclor-1260	(mg/kg)	3.50	D	0.40	D	4.10	D	33,000	EDP	130	D	56.0	D	1.0	D	0.130		NA
Aroclor (Total)	(mg/kg)	7.70	D	0.810	D	4.10	D	33,000	EDP	130	D	56.0	D	1.0	D	0.2290		50

NOTE: E = Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.

TABLE 1 SUMMARY OF POLYCHLORINATED BIPHENYLS IN BRICK AND CONCRETE SAMPLES

Parameters List via USEPA Method 8082	Sample ID	224015-EA-MFL-065	224015-EA-MFL-066	224015-EA-MFL-067	224015-EA-MWL-068L	224015-EA-MFL-069	224015-EA-MFL-070	224015-EA-MFL-071	224015-EA-MFL-072	6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)
	Lab ID	A2361-05	A2360-10	A2360-09	A2361-08	A2361-22	A2361-06	A2361-09	A2361-07	
	Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	
	Sample Date	4/15/2009	4/15/2009	4/15/2009	4/15/2009	4/15/2009	4/15/2009	4/15/2009	4/15/2009	
Aroclor-1016	(mg/kg)	(<0.00380) U	(<0.00380) U	(<0.00380) U	(<0.00440) U	(<0.00380) U	(<0.00380) U	(<0.00390) U	(<0.00380) U	NA
Aroclor-1221	(mg/kg)	(<0.00460) U	(<0.00460) U	(<0.00460) U	(<0.00540) U	(<0.00460) U	(<0.00460) U	(<0.00470) U	(<0.00470) U	NA
Aroclor-1232	(mg/kg)	(<0.00490) U	(<0.00490) U	(<0.00490) U	(<0.00570) U	(<0.00490) U	(<0.00490) U	(<0.00500) U	(<0.00490) U	NA
Aroclor-1242	(mg/kg)	(<0.00210) U	(<0.00210) U	(<0.00210) U	(<0.00250) U	(<0.00210) U	(<0.00210) U	(<0.00220) U	(<0.00220) U	NA
Aroclor-1248	(mg/kg)	(<0.00470) U	(<0.00470) U	(<0.00470) U	(<0.00550) U	(<0.00470) U	(<0.00470) U	(<0.00480) U	(<0.00470) U	NA
Aroclor-1254	(mg/kg)	(<0.00480) U	(<0.00480) U	(<0.00480) U	0.340	(<0.00480) U	(<0.00470) U	(<0.00480) U	(<0.00480) U	NA
Aroclor-1260	(mg/kg)	8.700 ED	1.900 D	1.900 D	0.310	3.300 D	200 D	3.10 D	4.10 D	NA
Aroclor (Total)	(mg/kg)	8.700 ED	1.900 D	1.900 D	0.650	3.300 D	200 D	3.10 D	4.10 D	50
Parameters List via USEPA Method 8082	Sample ID	224015-EA-MWL-073L	224015-EA-2FL-074	224015-EA-2FL-075	224015-EA-2FL-076	224015-EA-2FL-077	224015-EA-2FL-078	224015-EA-2FL-079	224015-EA-2FL-080	6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)
	Lab ID	A2361-01	A2360-01	A2360-02	A2360-03	A2360-04	A2360-05	A2360-06	A2360-07	
	Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	
	Sample Date	4/15/2009	4/15/2009	4/15/2009	4/15/2009	4/15/2009	4/15/2009	4/15/2009	4/15/2009	
Aroclor-1016	(mg/kg)	(<0.00370) U	(<0.0040) U	(<0.00390) U	(<0.00390) U	(<0.00380) U	(<0.00380) U	(<0.00380) U	(<0.00390) U	NA
Aroclor-1221	(mg/kg)	(<0.00450) U	(<0.00490) U	(<0.00480) U	(<0.00480) U	(<0.00470) U	(<0.00470) U	(<0.00470) U	(<0.00470) U	NA
Aroclor-1232	(mg/kg)	(<0.00480) U	(<0.00510) U	(<0.00500) U	(<0.00500) U	(<0.00490) U	(<0.00490) U	(<0.00490) U	(<0.00500) U	NA
Aroclor-1242	(mg/kg)	(<0.00210) U	(<0.00230) U	(<0.00220) U	(<0.00220) U	(<0.00220) U	(<0.00210) U	(<0.00220) U	(<0.00220) U	NA
Aroclor-1248	(mg/kg)	(<0.00460) U	(<0.00490) U	(<0.00480) U	(<0.00480) U	(<0.00470) U	(<0.00470) U	(<0.00470) U	(<0.00480) U	NA
Aroclor-1254	(mg/kg)	1.0 D	(<0.0050) U	(<0.00490) U	(<0.00490) U	(<0.00480) U	(<0.00480) U	(<0.00480) U	(<0.00480) U	NA
Aroclor-1260	(mg/kg)	1.0 D	1.10 D	18.0 D	17.0 D	7.20 D	22.0 D	0.960 D	5.30 D	NA
Aroclor (Total)	(mg/kg)	2.0 D	1.10 D	18.0 D	17.0 D	7.20 D	22.0 D	0.960 D	5.30 D	50
Parameters List via USEPA Method 8082	Sample ID	224015-EA-2WL-081L	224015-EA-BPL-082L	224015-EA-BPL-083L	224015-EA-BPL-084L	224015-EA-BPL-085L	224015-EA-BFL-086	224015-EA-BPL-087L	224015-EA-BFL-088	6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)
	Lab ID	A2360-08	A2363-06	A2363-08	A2365-02	A2365-07	A2362-14	A2363-18	A2365-01	
	Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	
	Sample Date	4/15/2009	4/17/2009	4/17/2009	4/16/2009	4/16/2009	4/16/2009	4/16/2009	4/16/2009	
Aroclor-1016	(mg/kg)	(<0.00370) U	(<0.00440) U	(<0.00420) U	(<0.00380) U	(<0.00430) U	(<0.040) U	(<0.00450) U	(<0.0040) U	NA
Aroclor-1221	(mg/kg)	(<0.00450) U	(<0.00530) U	(<0.00510) U	(<0.00460) U	(<0.00530) U	(<0.0490) U	(<0.00550) U	(<0.00490) U	NA
Aroclor-1232	(mg/kg)	(<0.00480) U	(<0.00560) U	(<0.00540) U	(<0.00480) U	(<0.00550) U	(<0.0520) U	(<0.00570) U	(<0.00510) U	NA
Aroclor-1242	(mg/kg)	(<0.00210) U	(<0.00250) U	(<0.00240) U	(<0.00210) U	(<0.00240) U	(<0.0230) U	(<0.00250) U	(<0.00220) U	NA
Aroclor-1248	(mg/kg)	(<0.00460) U	(<0.00540) U	(<0.00520) U	(<0.00460) U	(<0.00530) U	(<0.050) U	(<0.00550) U	(<0.00490) U	NA
Aroclor-1254	(mg/kg)	(<0.00460) U	0.320 D	(<0.00520) U	(<0.00470) U	(<0.00540) U	(<0.0510) U	(<0.00560) U	(<0.0050) U	NA
Aroclor-1260	(mg/kg)	0.970 D	0.330 D	0.30 D	0.260	0.360	13.0 D	0.0910	400 D	NA
Aroclor (Total)	(mg/kg)	0.970 D	0.650 D	0.30 D	0.260	0.360	13.0 D	0.0910	400 D	50
Parameters List via USEPA Method 8082	Sample ID	224015-EA-BPL-089L	224015-EA-BPL-090L	224015-EA-BPL-091L	224015-EA-BFL-092	224015-EA-BFL-093	224015-EA-BPL-094L	224015-EA-BPL-095L	224015-EA-BPL-096L	6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)
	Lab ID	A2365-15	A2365-21	A2364-04	A2364-09	A2363-20	A2364-11	A2364-08	A2365-16	
	Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	
	Sample Date	4/16/2009	4/16/2009	4/16/2009	4/16/2009	4/16/2009	4/16/2009	4/16/2009	4/16/2009	
Aroclor-1016	(mg/kg)	(<0.0220) U	(<0.00430) U	(<0.0440) U	(<0.0390) U	(<0.0040) U	(<0.0430) U	(<0.0440) U	(<0.00460) U	NA
Aroclor-1221	(mg/kg)	(<0.0260) U	(<0.00530) U	(<0.0550) U	(<0.0480) U	(<0.00490) U	(<0.0530) U	(<0.0540) U	(<0.00560) U	NA
Aroclor-1232	(mg/kg)	(<0.0280) U	(<0.00550) U	(<0.0560) U	(<0.050) U	(<0.00520) U	(<0.0550) U	(<0.0570) U	(<0.00580) U	NA
Aroclor-1242	(mg/kg)	(<0.0120) U	(<0.00240) U	(<0.0250) U	(<0.0220) U	(<0.00230) U	(<0.0240) U	(<0.0250) U	(<0.00260) U	NA
Aroclor-1248	(mg/kg)	(<0.0270) U	(<0.00530) U	(<0.0540) U	(<0.0480) U	(<0.0050) U	(<0.0530) U	(<0.0550) U	(<0.00560) U	NA
Aroclor-1254	(mg/kg)	(<0.0270) U	0.170	(<0.0550) U	(<0.0490) U	(<0.00510) U	(<0.0540) U	(<0.0550) U	(<0.00570) U	NA
Aroclor-1260	(mg/kg)	1.30	0.220	0.190 J	2.60	3.700 D	0.350	0.360	0.240	NA
Aroclor (Total)	(mg/kg)	1.30	0.390	0.190 J	2.60	3.700 D	0.350	0.360	0.240	50

TABLE 1 SUMMARY OF POLYCHLORINATED BIPHENYLS IN BRICK AND CONCRETE SAMPLES

Parameters List via USEPA Method 8082	Sample ID	224015-EA-BPL-097L		224015-EA-BFL-098		224015-EA-BPL-099L		224015-EA-BFL-100		224015-EA-BPL-101L		224015-EA-BPL-102L		224015-EA-BFL-103L		224015-EA-BFL-104		6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)
	Lab ID	A2360-21		A2365-03		A2365-09		A2362-13		A2365-08		A2364-10		A2364-06		A2364-05		
	Sample Type	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		
	Sample Date	4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		
Aroclor-1016	(mg/kg)	<0.00440	U	<0.00420	U	<0.0210	U	<0.040	U	<0.00430	U	<0.0430	U	<0.0440	U	<0.040	U	NA
Aroclor-1221	(mg/kg)	<0.00540	U	<0.00510	U	<0.0260	U	<0.0490	U	<0.00530	U	<0.0530	U	<0.0540	U	<0.0490	U	NA
Aroclor-1232	(mg/kg)	<0.00560	U	<0.00540	U	<0.0270	U	<0.0510	U	<0.00550	U	<0.0560	U	<0.0570	U	<0.0510	U	NA
Aroclor-1242	(mg/kg)	<0.00250	U	<0.00240	U	<0.0120	U	<0.0220	U	<0.00240	U	<0.0240	U	<0.0250	U	<0.0220	U	NA
Aroclor-1248	(mg/kg)	<0.00540	U	<0.00520	U	<0.0260	U	<0.0490	U	<0.00530	U	<0.0530	U	<0.0550	U	<0.0490	U	NA
Aroclor-1254	(mg/kg)	<0.00550	U	<0.00520	U	<0.0260	U	<0.050	U	<0.00540	U	<0.0540	U	<0.0560	U	<0.050	U	NA
Aroclor-1260	(mg/kg)	51.0	D	5.60	D	0.590		34.0	D	1.0	D	1.20		0.660		64.0	D	NA
Aroclor (Total)	(mg/kg)	51.0	D	5.60	D	0.590		34.0	D	1.0	D	1.20		0.660		64.0	D	50

Parameters List via USEPA Method 8082	Sample ID	224015-EA-BFL-105		224015-EA-BPL-106L		224015-EA-BPL-107L		224015-EA-BPL-108L		224015-EA-BPL-109L		224015-EA-BFL-110		224015-EA-BPL-111L		224015-EA-BFL-112		6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)
	Lab ID	A2364-12		A2363-19		A2364-07		A2362-11		A2365-17		A2365-19		A2362-17		A2365-05		
	Sample Type	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		
	Sample Date	4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		
Aroclor-1016	(mg/kg)	<0.0380	U	<0.00440	U	<0.0440	U	<0.0450	U	<0.00420	U	<0.00410	U	<0.00440	U	<0.00390	U	NA
Aroclor-1221	(mg/kg)	<0.0470	U	<0.00540	U	<0.0530	U	<0.0550	U	<0.00510	U	<0.0050	U	<0.00540	U	<0.00480	U	NA
Aroclor-1232	(mg/kg)	<0.0490	U	<0.00570	U	<0.0560	U	<0.0570	U	<0.00540	U	<0.00520	U	<0.00560	U	<0.0050	U	NA
Aroclor-1242	(mg/kg)	<0.0220	U	<0.00250	U	<0.0250	U	<0.0250	U	<0.00240	U	<0.00230	U	<0.00250	U	<0.00220	U	NA
Aroclor-1248	(mg/kg)	<0.0470	U	<0.00550	U	<0.0540	U	<0.0550	U	<0.00520	U	<0.0050	U	<0.00540	U	<0.00480	U	NA
Aroclor-1254	(mg/kg)	<0.0480	U	0.710	D	<0.0550	U	<0.0560	U	<0.00520	U	<0.00510	U	<0.00550	U	<0.00490	U	NA
Aroclor-1260	(mg/kg)	74.0	D	0.570	D	0.340		0.640		0.820	D	97.0	D	0.280		6.300	ED	NA
Aroclor (Total)	(mg/kg)	74.0	D	1.280	D	0.340		0.640		0.820	D	97.0	D	0.280		6.300	ED	50

Parameters List via USEPA Method 8082	Sample ID	224015-EA-BPL-113L		224015-EA-BPL-114L		224015-EA-BPL-115L		224015-EA-BFL-116		224015-EA-BFL-117		224015-EA-BPL-118L		224015-EA-BPL-119L		224015-EA-BPL-120L		6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)
	Lab ID	A2365-04		A2364-23		A2364-22		A2364-20		A2367-08		A2364-21		A2362-12		A2364-15		
	Sample Type	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		
	Sample Date	4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		
Aroclor-1016	(mg/kg)	<0.00440	U	<0.040	U	<0.0440	U	<0.0410	U	<0.40	U	<0.0440	U	<0.0420	U	<0.0430	U	NA
Aroclor-1221	(mg/kg)	<0.00540	U	<0.0490	U	<0.0540	U	<0.050	U	<0.490	U	<0.0530	U	<0.0510	U	<0.0530	U	NA
Aroclor-1232	(mg/kg)	<0.00570	U	<0.0510	U	<0.0560	U	<0.0520	U	<0.520	U	<0.0560	U	<0.0530	U	<0.0560	U	NA
Aroclor-1242	(mg/kg)	<0.00250	U	<0.0220	U	<0.0250	U	<0.0230	U	<0.230	U	<0.0250	U	<0.0230	U	<0.0240	U	NA
Aroclor-1248	(mg/kg)	<0.00550	U	<0.0490	U	<0.0540	U	<0.0510	U	<0.50	U	<0.0540	U	<0.0510	U	<0.0530	U	NA
Aroclor-1254	(mg/kg)	<0.00550	U	<0.050	U	<0.0550	U	<0.0510	U	<0.510	U	<0.0550	U	<0.0520	U	<0.0540	U	NA
Aroclor-1260	(mg/kg)	6.0	D	1.80		1.60		130	D	3.100	D	0.360		190	D	0.280		NA
Aroclor (Total)	(mg/kg)	6.0	D	1.80		1.60		130	D	3.100	D	0.360		190	D	0.280		50

Parameters List via USEPA Method 8082	Sample ID	224015-EA-BPL-121L		224015-EA-BFL-122		224015-EA-BFL-123		224015-EA-BPL-124L		224015-EA-BPL-125L		224015-EA-BPL-126L		224015-EA-BPL-127L		224015-EA-BFL-128		6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)
	Lab ID	A2364-18		A2364-13		A2366-11		A2364-14		A2364-24		A2367-09		A2363-22		A2365-10		
	Sample Type	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		
	Sample Date	4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		
Aroclor-1016	(mg/kg)	<0.0440	U	<0.0390	U	<0.0040	U	<0.0440	U	<0.0450	U	<0.00450	U	<0.00410	U	<0.190	U	NA
Aroclor-1221	(mg/kg)	<0.0540	U	<0.0480	U	<0.00480	U	<0.0540	U	<0.0550	U	<0.00550	U	<0.0050	U	<0.230	U	NA
Aroclor-1232	(mg/kg)	<0.0560	U	<0.050	U	<0.00510	U	<0.0560	U	<0.0580	U	<0.00580	U	<0.00520	U	<0.240	U	NA
Aroclor-1242	(mg/kg)	<0.0250	U	<0.0220	U	<0.00220	U	<0.0250	U	<0.0250	U	<0.00250	U	<0.00230	U	<0.110	U	NA
Aroclor-1248	(mg/kg)	<0.0540	U	<0.0480	U	<0.00490	U	<0.0540	U	<0.0560	U	<0.00560	U	<0.0050	U	<0.230	U	NA
Aroclor-1254	(mg/kg)	<0.0550	U	<0.0490	U	<0.0050	U	<0.0550	U	<0.0570	U	<0.00570	U	<0.00510	U	<0.240	U	NA
Aroclor-1260	(mg/kg)	2.0		34.0	D	730	D	1.10		1.10	J	1.20	D	1.40	D	87.0	D	NA
Aroclor (Total)	(mg/kg)	2.0		34.0	D	730	D	1.10		0.170	J	1.20	D	1.40	D	87.0	D	50

TABLE 1 SUMMARY OF POLYCHLORINATED BIPHENYLS IN BRICK AND CONCRETE SAMPLES

Parameters List via USEPA Method 8082	Sample ID	224015-EA-BFL-129	224015-EA-BFL-130	224015-EA-BFL-131	224015-EA-BWL-132L	224015-EA-BWL-133L	224015-EA-BFL-134	224015-EA-BWL-135L	224015-EA-BWL-136L	6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)
	Lab ID	A2367-07	A2363-21	A2367-01	A2362-15	A2367-10	A2367-06	A2367-02	A2364-19	
	Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	
	Sample Date	4/16/2009	4/16/2009	4/16/2009	4/16/2009	4/16/2009	4/16/2009	4/16/2009	4/16/2009	
Aroclor-1016	(mg/kg)	(<0.40)	U (<0.0040)	U (<0.00390)	U (<0.0440)	U (<0.00450)	U (<0.430)	U (<0.00410)	U (<0.0440)	U NA
Aroclor-1221	(mg/kg)	(<0.480)	U (<0.00490)	U (<0.00470)	U (<0.0540)	U (<0.00550)	U (<0.530)	U (<0.0050)	U (<0.0540)	U NA
Aroclor-1232	(mg/kg)	(<0.510)	U (<0.00510)	U (<0.0050)	U (<0.0050)	U (<0.0570)	U (<0.560)	U (<0.00520)	U (<0.0560)	U NA
Aroclor-1242	(mg/kg)	(<0.220)	U (<0.00230)	U (<0.00220)	U (<0.0250)	U (<0.00250)	U (<0.240)	U (<0.00230)	U (<0.0250)	U NA
Aroclor-1248	(mg/kg)	(<0.490)	U (<0.00490)	U (<0.00480)	U (<0.0550)	U (<0.00550)	U (<0.530)	U (<0.0050)	U (<0.0540)	U NA
Aroclor-1254	(mg/kg)	(<0.490)	U 3.700	D (<0.00480)	U (<0.0550)	U (<0.00560)	U (<0.540)	U (<0.00510)	U (<0.0550)	U NA
Aroclor-1260	(mg/kg)	2,000	D 4,200	D 250	D 0.320	0.650	D 1,000	D 0.450	D 0.340	NA
Aroclor (Total)	(mg/kg)	2,000	D 7,900	D 250	D 0.320	0.650	D 1,000	D 0.450	D 0.340	50
Parameters List via USEPA Method 8082	Sample ID	224015-EA-BFL-137	224015-EA-BWL-138L	224015-EA-BFL-139	224015-EA-BFL-140	224015-EA-BFL-141	224015-EA-BFL-142	224015-EA-BFL-143	224015-EA-BWL-144L	6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)
	Lab ID	A2367-11	A2367-05	A2366-18	A2366-14	A2366-16	A2366-04	A2365-06	A2365-11	
	Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	
	Sample Date	4/16/2009	4/16/2009	4/16/2009	4/16/2009	4/16/2009	4/16/2009	4/16/2009	4/16/2009	
Aroclor-1016	(mg/kg)	(<0.00390)	U (<0.00380)	U (<0.00380)	U (<0.00380)	U (<0.00380)	U (<0.00380)	U (<0.00380)	U (<0.00420)	U NA
Aroclor-1221	(mg/kg)	(<0.00480)	U (<0.00460)	U (<0.00470)	U (<0.00460)	U (<0.00460)	U (<0.00460)	U (<0.00460)	U (<0.00520)	U NA
Aroclor-1232	(mg/kg)	(<0.0050)	U (<0.00480)	U (<0.00490)	U (<0.00490)	U (<0.00490)	U (<0.00490)	U (<0.00490)	U (<0.00540)	U NA
Aroclor-1242	(mg/kg)	(<0.00220)	U (<0.00210)	U (<0.00220)	U (<0.00210)	U (<0.00210)	U (<0.00210)	U (<0.00210)	U (<0.00240)	U NA
Aroclor-1248	(mg/kg)	(<0.00480)	U (<0.00460)	U (<0.00470)	U (<0.00470)	U (<0.00470)	U (<0.00470)	U (<0.00470)	U (<0.00520)	U NA
Aroclor-1254	(mg/kg)	(<0.00490)	U (<0.00470)	U (<0.00480)	U (<0.00480)	U (<0.00480)	U (<0.00470)	U (<0.00470)	U (<0.00530)	U NA
Aroclor-1260	(mg/kg)	500	D 5.50	D 25.0	D 76.0	D 11.0	D 140	D 100	D 0.680	NA
Aroclor (Total)	(mg/kg)	500	D 5.50	D 25.0	D 76.0	D 11.0	D 140	D 100	D 0.680	50
Parameters List via USEPA Method 8082	Sample ID	224015-EA-BWL-145L	224015-EA-BFL-146	224015-EA-BFL-147	224015-EA-BWL-148L	224015-EA-BWL-149L	224015-EA-BWL-150L	224015-EA-BWL-151L	224015-EA-BWL-152L	6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)
	Lab ID	A2366-06	A2366-05	A2365-18	A2362-16	A2366-17	A2366-08	A2365-14	A2365-13	
	Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	
	Sample Date	4/16/2009	4/16/2009	4/16/2009	4/16/2009	4/16/2009	4/16/2009	4/16/2009	4/16/2009	
Aroclor-1016	(mg/kg)	(<0.00410)	U (<0.00380)	U (<0.00380)	U (<0.0380)	U (<0.00370)	U (<0.00420)	U (<0.00390)	U (<0.00750)	U NA
Aroclor-1221	(mg/kg)	(<0.00510)	U (<0.00470)	U (<0.00460)	U (<0.0470)	U (<0.00450)	U (<0.00510)	U (<0.00470)	U (<0.00920)	U NA
Aroclor-1232	(mg/kg)	(<0.00530)	U (<0.00490)	U (<0.00490)	U (<0.0490)	U (<0.00480)	U (<0.00530)	U (<0.0050)	U (<0.00970)	U NA
Aroclor-1242	(mg/kg)	(<0.00230)	U (<0.00210)	U (<0.00210)	U (<0.0210)	U (<0.00210)	U (<0.00230)	U (<0.00220)	U (<0.00420)	U NA
Aroclor-1248	(mg/kg)	(<0.00510)	U (<0.00470)	U (<0.00470)	U (<0.0470)	U (<0.00460)	U (<0.00510)	U (<0.00480)	U (<0.00930)	U NA
Aroclor-1254	(mg/kg)	(<0.00520)	U (<0.00480)	U (<0.00480)	U (<0.0480)	U 0.680	D (<0.00520)	U (<0.00480)	U (<0.00940)	U NA
Aroclor-1260	(mg/kg)	0.170	D 11.0	D 180	DP 0.250	<0.00380	U 0.440	D 0.180	0.50	NA
Aroclor (Total)	(mg/kg)	0.170	D 11.0	D 180	DP 0.250	0.680	D 0.440	D 0.180	0.50	50
Parameters List via USEPA Method 8082	Sample ID	224015-EA-BWL-153L	224015-EA-BWL-154L	224015-EA-BWL-155L	224015-EA-BFL-156	224015-EA-BFL-157	224015-EA-BFL-158	224015-EA-BFL-159	224015-EA-BWL-160L	6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)
	Lab ID	A2366-13	A2366-03	A2366-15	A2366-02	A2366-12	A2365-12	A2366-01	A2366-09	
	Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	
	Sample Date	4/16/2009	4/16/2009	4/16/2009	4/16/2009	4/16/2009	4/16/2009	4/16/2009	4/16/2009	
Aroclor-1016	(mg/kg)	(<0.00370)	U (<0.00380)	U (<0.00380)	U (<0.00380)	U (<0.00380)	U (<0.00380)	U (<0.00380)	U (<0.00370)	U NA
Aroclor-1221	(mg/kg)	(<0.00450)	U (<0.00460)	U (<0.00460)	U (<0.00470)	U (<0.00460)	U (<0.00460)	U (<0.00460)	U (<0.00460)	U NA
Aroclor-1232	(mg/kg)	(<0.00480)	U (<0.00480)	U (<0.00480)	U (<0.00490)	U (<0.00490)	U (<0.00480)	U (<0.00490)	U (<0.00480)	U NA
Aroclor-1242	(mg/kg)	(<0.00210)	U (<0.00210)	U (<0.00210)	U (<0.00220)	U (<0.00210)	U (<0.00210)	U (<0.00210)	U (<0.00210)	U NA
Aroclor-1248	(mg/kg)	(<0.00460)	U (<0.00460)	U (<0.00470)	U (<0.00470)	U (<0.00470)	U (<0.00460)	U (<0.00470)	U (<0.00460)	U NA
Aroclor-1254	(mg/kg)	(<0.00460)	U (<0.00470)	U (<0.00470)	U (<0.00480)	U (<0.00470)	U (<0.00470)	U (<0.00480)	U (<0.00470)	U NA
Aroclor-1260	(mg/kg)	140	D 0.860	D 0.160	590	D 85	D 21.0	D 43.0	D 3.10	NA
Aroclor (Total)	(mg/kg)	140	D 0.860	D 0.160	590	D 85	D 21.0	D 43.0	D 3.10	50

TABLE 1 SUMMARY OF POLYCHLORINATED BIPHENYLS IN BRICK AND CONCRETE SAMPLES

Parameters List via USEPA Method 8082	Sample ID	224015-EA-BFL-161		224015-EA-BWL-162L		224015-EA-BWL-163L		224015-EA-BFL-164		224015-EA-BFL-165		224015-EA-BWL-166L		DUPLICATE	224015-EA-DUP 01		6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)	
	Lab ID	A2366-10		A2363-17		A2363-16		A2363-15		A2366-07		A2365-20		Z5890-16	A2361-15			
	Sample Type	Soil		Soil		Soil		Soil		Soil		Soil		Soil	Soil			
	Sample Date	4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		12/17/2008	4/15/2009			
Aroclor-1016	(mg/kg)	(<0.00380)	U	(<0.00410)	U	(<0.00540)	U	(<0.00250)	U	(<0.00210)	U	(<0.00450)	U	(<0.00430)	U	(<0.00430)	U	NA
Aroclor-1221	(mg/kg)	(<0.00460)	U	(<0.0050)	U	(<0.00660)	U	(<0.00450)	U	(<0.00380)	U	(<0.00550)	U	(<0.00530)	U	(<0.00530)	U	NA
Aroclor-1232	(mg/kg)	(<0.00490)	U	(<0.00520)	U	(<0.00690)	U	(<0.00550)	U	(<0.00470)	U	(<0.00580)	U	(<0.00560)	U	(<0.00560)	U	NA
Aroclor-1242	(mg/kg)	(<0.00210)	U	(<0.00230)	U	(<0.0030)	U	(<0.00550)	U	(<0.00470)	U	(<0.00250)	U	(<0.00240)	U	(<0.00240)	U	NA
Aroclor-1248	(mg/kg)	(<0.00470)	U	(<0.0050)	U	(<0.00660)	U	(<0.00560)	U	(<0.00480)	U	(<0.00550)	U	(<0.00530)	U	(<0.00530)	U	NA
Aroclor-1254	(mg/kg)	(<0.00470)	U	(<0.00510)	U	(<0.00670)	U	(<0.00570)	U	(<0.00490)	U	(<0.00560)	U	(<0.00540)	U	0.620	D	NA
Aroclor-1260	(mg/kg)	160	D	26.000	ED	11.000	EDP	5.400	ED	98	D	1.50	D	0.30	D	0.650	D	NA
Aroclor (Total)	(mg/kg)	160	D	26.000	ED	11.000	EDP	5.400	ED	98	D	1.50	D	0.30	D	1.270	D	50
Parameters List via USEPA Method 8082	Sample ID	224015-EA-DUP 02		224015-EA-DUP 03		224015-EA-DUP 04		224015-EA-DUP 05		224015-EA-DUP 06		224015-EA-DUP 07		6 NYCRR Part 375 Unrestricted Use Cleanup Objectives (ppm)				
	Lab ID	A2361-10		A2366-20		A2366-19		A2363-23		A2362-18		A2363-11						
	Sample Type	Soil		Soil		Soil		Soil		Soil		Soil						
	Sample Date	4/15/2009		4/16/2009		4/16/2009		4/16/2009		4/16/2009		4/17/2009						
Aroclor-1016	(mg/kg)	(<0.00430)	U	(<0.00380)	U	(<0.00420)	U	(<0.00430)	U	(<0.420)	U	(<0.00430)	U	NA				
Aroclor-1221	(mg/kg)	(<0.00530)	U	(<0.00460)	U	(<0.00520)	U	(<0.00530)	U	(<0.510)	U	(<0.00530)	U	NA				
Aroclor-1232	(mg/kg)	(<0.00550)	U	(<0.00480)	U	(<0.00540)	U	(<0.00550)	U	(<0.540)	U	(<0.00550)	U	NA				
Aroclor-1242	(mg/kg)	(<0.00240)	U	(<0.00210)	U	(<0.00240)	U	(<0.00240)	U	(<0.240)	U	(<0.00240)	U	NA				
Aroclor-1248	(mg/kg)	(<0.00530)	U	(<0.00460)	U	(<0.00520)	U	(<0.00530)	U	(<0.520)	U	(<0.00530)	U	NA				
Aroclor-1254	(mg/kg)	0.330		0.980	D	0.670	D	0.330		(<0.520)	U	(<0.00540)	U	NA				
Aroclor-1260	(mg/kg)	0.310		(<0.00370)	U	(<0.00420)	U	0.340	P	5.20		0.460	D	NA				
Aroclor (Total)	(mg/kg)	0.640		0.980	D	0.670	D	0.670	P	5.20		0.460	D	50				
Parameters List via USEPA Method 8082	Sample ID	224015-EA-RINSATE-01		224015-EA-RINSATE-02		224015-EA-RINSATE-03		224015-EA-RINSATE-04		224015-EA-RINSATE-05		NYSDEC Ambient Water Quality Standard (ug/L)						
	Lab ID	A2363-01		A2363-02		A2363-03		A2363-04		A2363-05								
	Sample Type	Water		Water		Water		Water		Water								
	Sample Date	4/15/2009		4/15/2009		4/16/2009		4/16/2009		4/17/2009								
Aroclor-1016	(ug/L)	(<0.1580)	U	(<0.1460)	U	(<0.1560)	U	(<0.1450)	U	(<0.1560)	U	0.09(s)						
Aroclor-1221	(ug/L)	(<0.1260)	U	(<0.1160)	U	(<0.1240)	U	(<0.1150)	U	(<0.1240)	U	0.09(s)						
Aroclor-1232	(ug/L)	(<0.1280)	U	(<0.1190)	U	(<0.1260)	U	(<0.1170)	U	(<0.1260)	U	0.09(s)						
Aroclor-1242	(ug/L)	(<0.0810)	U	(<0.0750)	U	(<0.0800)	U	(<0.0750)	U	(<0.080)	U	0.09(s)						
Aroclor-1248	(ug/L)	(<0.1120)	U	(<0.1040)	U	(<0.1110)	U	(<0.1030)	U	(<0.1110)	U	0.09(s)						
Aroclor-1254	(ug/L)	(<0.1540)	U	(<0.1430)	U	(<0.1530)	U	(<0.1420)	U	(<0.1530)	U	0.09(s)						
Aroclor-1260	(ug/L)	(<0.0990)	U	0.340	J	(<0.0980)	U	(<0.0910)	U	(<0.0980)	U	0.09(s)						
NOTE: NYSDEC = New York State Department of Environmental Conservation DUPLICATE sample was collected from X, DUP 01 was collected from MWL-055L, DUP 02 was collected from MWL-068L, DUP 03 was collected from BWL-154L, DUP 04 was collected from BWL-144L, DUP 05 was collected from BPL-107L, DUP 06 was collected from BFL-098, and DUP 07 was collected from BPL-082L.																		

Appendix A

Preliminary Site Assessment Report – CD format

Appendix B

Environmental Resources Management Report - CD Format

Appendix C

Analytical Results – CD format

Appendix D

Daily Field Reports

DAILY FIELD REPORT

Day: Monday Date: December 15, 2008



NYSDEC

Temperature: 40 (am) 50 (pm)
(F)

Wind: NW (am) NW (pm)
Direction:

Project Name: Empire Electric

Weather: (am) Cool and Sunny
(pm) Cool and Sunny

NYSDEC Site #: 2-24-015

Contract #: D004441-26

Arrive at site 10:00 (am)

Location, Brooklyn, New York

Leave site: 4:15 (pm)

HEALTH & SAFETY:

Are there any changes to the Health & Safety Plan?
(If yes, list the deviation under items for concern)

Yes () No (X)

Are monitoring results at acceptable levels?

Soil	Yes ()	n/a (X)	* No ()
Waters	Yes ()	n/a (X)	* No ()
Air	Yes ()	n/a (X)	* No ()

OTHER ITEMS:

- If No, provide comments

Site Sketch Attached: Yes (X) No ()
 Photos Taken: Yes (X) No ()

DESCRIPTION OF DAILY WORK PERFORMED:

The sampling crew left the Syracuse Area at approximately 4:30 AM and arrived at the Site at approximately 10:00 AM. Sampling crew consisted of Scott Fonte, Sarah Nelson, Chris Schroer, and Chris Salvas.

Already, on-site were NYSDEC Project Manager, David Chiusano, and EA representatives Robert Casey and Peter Garger. Shortly following our arrival, adjacent property owner, Larry Gersham, and his associates toured a portion of the building under the supervision of the NYSDEC Project Manager.

Robert Casey gave a brief health and safety overview for the sight, highlighting significant portions of the Site Specific Hasp such as location of nearest hospital, proper PPE etc. Robert then gave all EA personnel a Site tour highlighting areas of interest, and areas of significant safety concern.

The sampling crew then began assembling the lights, and sample locations were marked. Wall and floor sampling were begun at approximately, 2:53 PM; seven samples were collected on this day (see below).

PROJECT TOTALS:

SAMPLING (Soil/Water/Air)

Contractor (EA) Sample ID:	DEC Sample ID:	Description:
2-24-015 EA012	NA	Main floor wall sample (ERM1WL-L-010)
2-24-015 EA011	NA	Main floor wall sample (ERM1WL-L-008)
2-24-015 EA013	NA	Main floor wall sample (ERM1WL-L-007)
2-24-015 EA015	NA	Main floor wall sample (ERM1WL-L-006)
2-24-015 EA016	NA	Main floor wall sample (ERM1WL-L-005)
2-24-015 EA017	NA	Main floor wall sample (ERM1WL-L-003)
2-24-015 EA014	NA	Main floor wall sample

DAILY FIELD REPORT

Day: Monday Date: December 15, 2008

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

(Name of contractor) personnel: Scott Fonte, Sarah Nelson, Chris Schroer, Chris Salvas, Bob Casey, Pete Garger

(Name of Subcontractor) personnel:

(Name of contractor) equipment: 6,000 kW generator, hammer drill, work lights

*(*Indicates active equipment)*

Other Subcontractors:

VISITORS TO SITE:

1. Larry Gersham and associates [adjacent building owner(s)]
2. David Chiusano [NYSDEC]

PROJECT SCHEDULE ISSUES:

None

PROJECT BUDGET ISSUES:

None.

ITEMS OF CONCERN:

COMMENTS:

ATTACHMENT(S) TO THIS REPORT: Sample location map(s).

SITE REPRESENTATIVE:

Name: *(signature)*



cc:Don Conan, P.E.

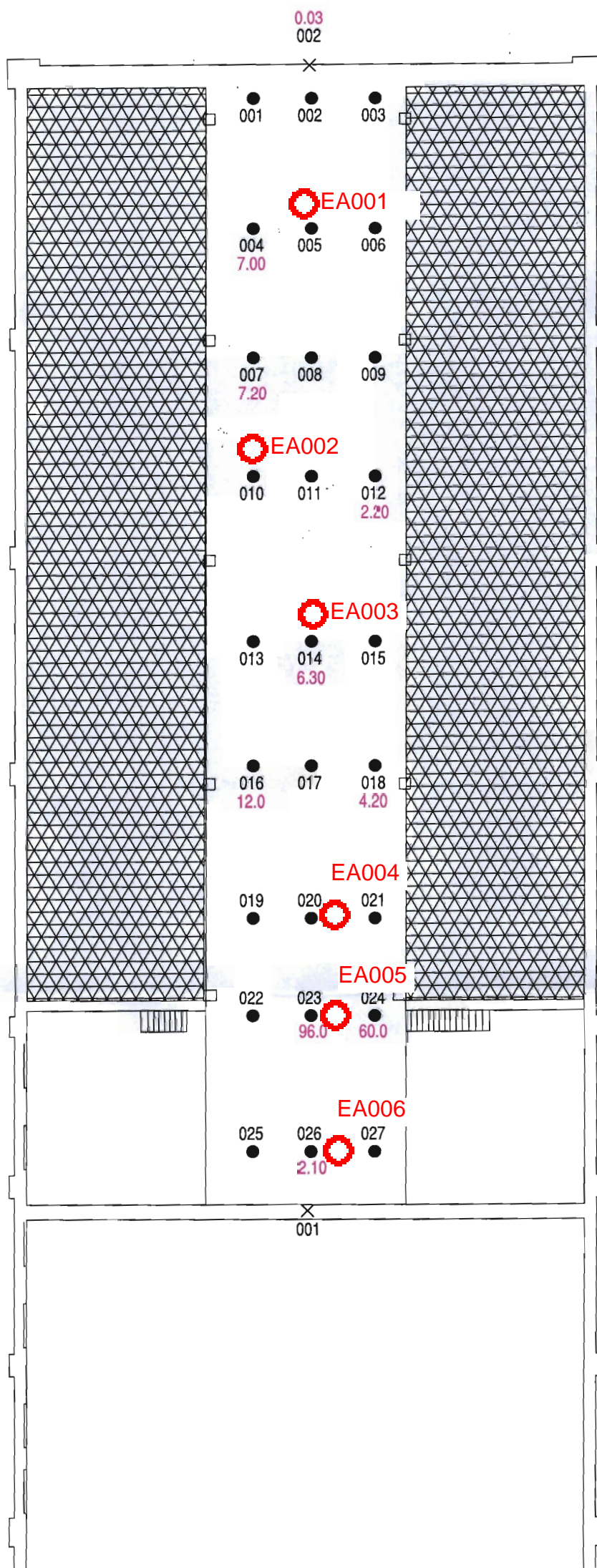
DAILY FIELD REPORT

Day: Monday Date: December 15, 2008

DAILY PHOTOLOG







Legend

- EA001 Approximate Proposed Floor Sample
- EA002 Approximate Proposed Wall Sample

1. Original figure was obtained from report titled "Draft Limited Remedial Investigation and Building Report", prepared by ERM, Feb 2007.

2. An additional IO building material samples will be collected. The locations of the samples will be field determined.

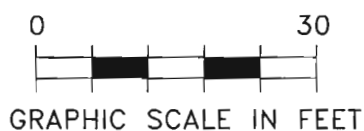
LEGEND

- 001 SAMPLE DESIGNATION NUMBER
- X WALL SAMPLE
- 020 SAMPLE DESIGNATION NUMBER
- FLOOR SAMPLE
- 37.34 PCB CONCENTRATION

NOTES

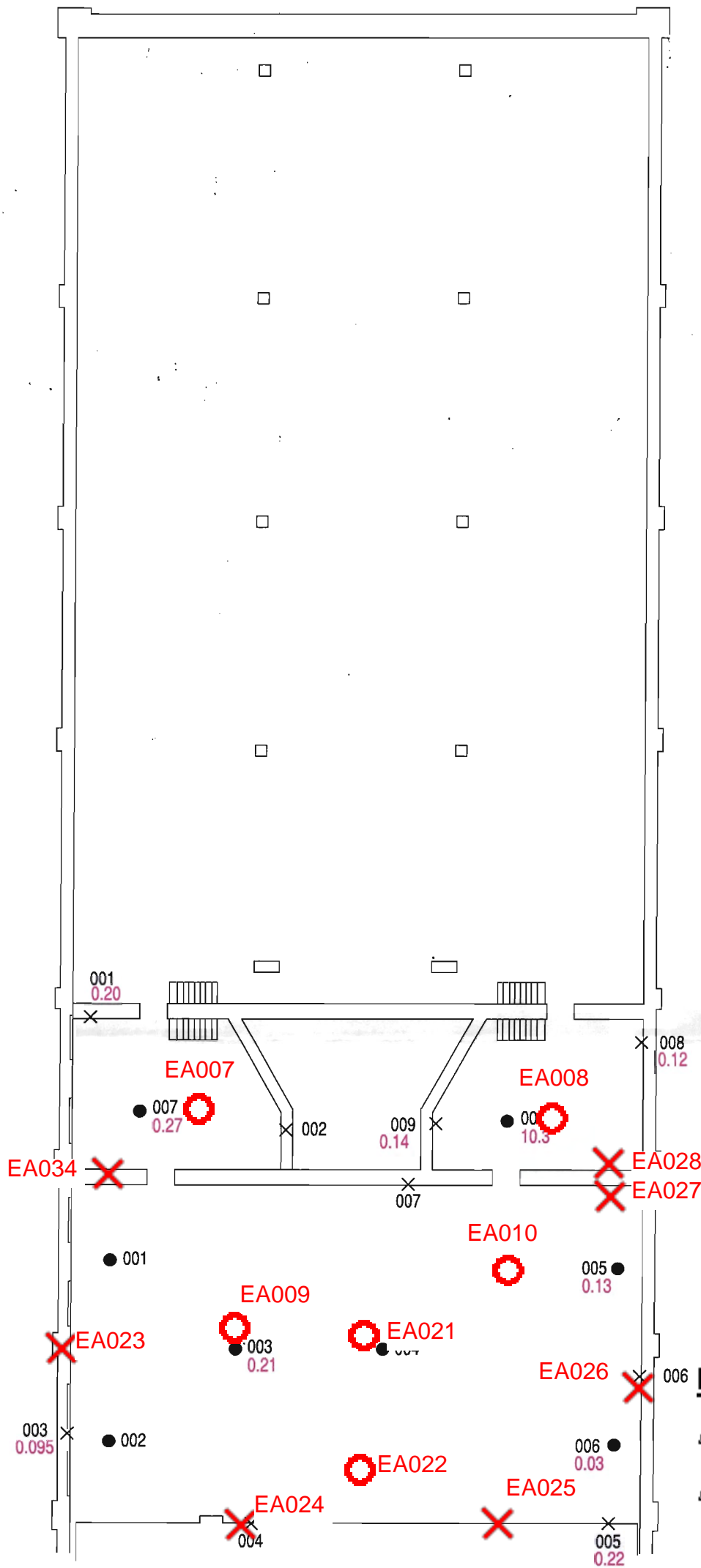
WALL ID: ERM-3WL-LXXX SAMPLE DESIGNATION NUMBER
 FLOOR ID: ERM-3FL-XXX SAMPLE DESIGNATION NUMBER
 PCB: POLYCHLORINATED BIPHENYL
 ppm: PARTS PER MILLION

WALL AND FLOOR SAMPLING LOCATIONS DESIGNATED BY NUMBER ONLY ON MAPS FOR SPACE PURPOSES.
 ONLY A SUBSET OF SAMPLES WERE ANALYZED BY USEPA METHOD 8082 ANALYSIS FOR PCBs.



EA - FIGURE 2

TITLE			
SECOND MEZZANINE FLOOR PLAN USEPA METHOD 8082 PCB RESULTS EMPIRE ELECTRIC COMPANY			
PREPARED FOR			
NYSDEC SITE NO. 2-24-015			
Environmental Resource Management DRAWN: EMF	SCALE	FIGURE	4-9
	GRAPHIC	DATE	
JOB NO.: 0024845	FILE NAME: 0024845-00-017	DATE: 1/26/07	



Legend

- EA001 Approximate Proposed Floor Sample
- EA002 Approximate Proposed Wall Sample

1. Original figure was obtained from report titled "Draft Limited Remedial Investigation and Building Report", prepared by ERM, Feb 2007.
2. An additional IO building material samples will be collected. The locations of the samples will be field determined.

LEGEND

- 008 SAMPLE DESIGNATION NUMBER
- × WALL SAMPLE
- 007 SAMPLE DESIGNATION NUMBER
- FLOOR SAMPLE

37.34 PCB CONCENTRATION

NOTES

WALL ID: ERM-2WL-LXXX SAMPLE DESIGNATION NUMBER
 FLOOR ID: ERM-2FL-XXX SAMPLE DESIGNATION NUMBER

PCB: POLYCHLORINATED BIPHENYL

ppm: PARTS PER MILLION

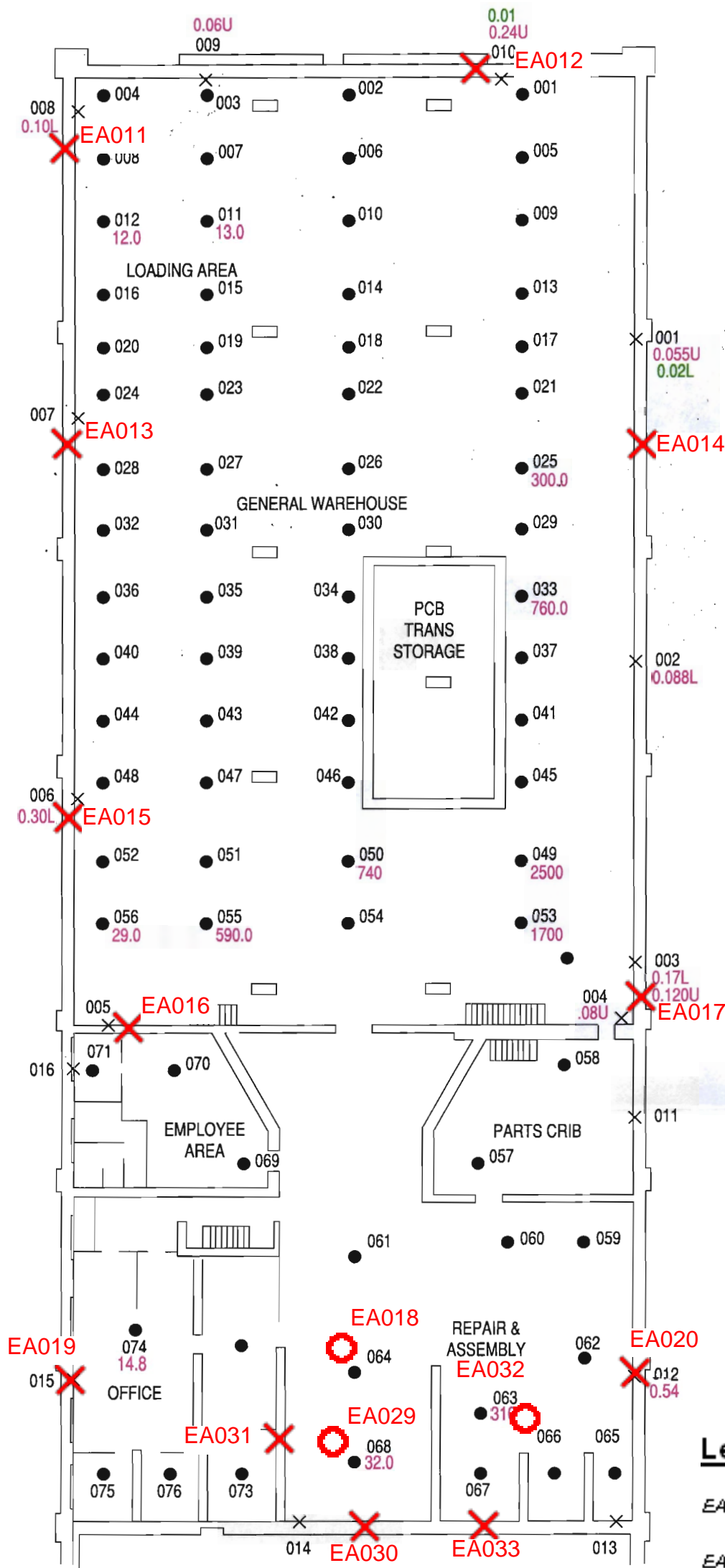
WALL AND FLOOR SAMPLING LOCATIONS DESIGNATED BY NUMBER ONLY ON MAPS FOR SPACE PURPOSES.

ONLY A SUBSET OF SAMPLES WERE ANALYZED BY USEPA METHOD 8082 ANALYSIS FOR PCBs.



EA - FIGURE 3

TITLE			
FIRST MEZZANINE FLOOR PLAN USEPA METHOD 8082 PCB RESULTS EMPIRE ELECTRIC COMPANY			
PREPARED FOR			
NYSDEC SITE NO. 2-24-015			
Environmental Resources Management ERM	SCALE	GRAPHIC	FIGURE
	DATE	1/26/07	
DRAWN: ERM	JOB NO.: 0024845	FILE NAME: 0024845-00-016	



Legend

- EA001 ○ Approximate Proposed Floor Sample
- EA002 X Approximate Proposed Wall Sample

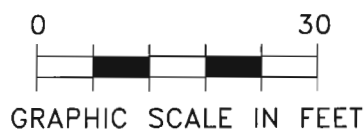
1. Original figure was obtained from report titled "Draft Limited Remedial Investigation and Building Report", prepared by ERM, Feb 2007.
2. An additional IO building material samples will be collected. The locations of the samples will be field determined.

LEGEND

- 003 SAMPLE DESIGNATION NUMBER
- X WALL SAMPLE
- 043 SAMPLE DESIGNATION NUMBER
- FLOOR SAMPLE
- 0.17 PCB CONCENTRATION
- 0.02 PCB CONCENTRATION AT 1/4" DEPTH

NOTES

SAMPLE DESIGNATION NUMBER
 WALL ID: ERM-1WL-LXXX
 SAMPLE DESIGNATION NUMBER
 FLOOR ID: ERM-1FL-XXX
 L: LOWER WALL SAMPLE (0 - 4 1/2 FOOT WALL HEIGHT)
 U: UPPER WALL SAMPLE (GREATER THAN 15 FOOT WALL HEIGHT)
 PCB: POLYCHLORINATED BIPHENYL
 ppm: PARTS PER MILLION



WALL AND FLOOR SAMPLING LOCATIONS DESIGNATED BY NUMBER ONLY ON MAPS FOR SPACE PURPOSES.

ONLY A SUBSET OF SAMPLES WERE ANALYZED BY USEPA METHOD 8082 ANALYSIS FOR PCBs.

EA - FIGURE 4

TITLE			
MAIN FLOOR PLAN USEPA METHOD 8082 PCB RESULTS EMPIRE ELECTRIC COMPANY			
PREPARED FOR			
NYSDEC SITE NO. 2-24-015			
Environmental Resource Management ERM	SCALE	FIGURE	4-7
	GRAPHIC		
DRAWN:	JOB NO.:	FILE NAME:	DATE:
EMF	0024845	0024845-00-014	2/2/07

DAILY FIELD REPORT

Day: Tuesday Date: December 16, 2008



NYSDEC

Temperature: 35 (am) 25 (pm)
(F)

Wind NW (am) NW (pm)
Direction:

Weather: (am) Cold, overcast, rain
(pm) Cold, overcast, snow

Project Name: Empire Electric

NYSDEC Site #: 2-24-015

Contract #: D004441-26

Arrive at site 8:00 (am)

Location, Brooklyn, New York

Leave site: 4:15 (pm)

HEALTH & SAFETY:

Are there any changes to the Health & Safety Plan?
(If yes, list the deviation under items for concern)

Yes () No (X)

Are monitoring results at acceptable levels?

Soil	Yes ()	n/a (X)	* No ()
Waters	Yes ()	n/a (X)	* No ()
Air	Yes ()	n/a (X)	* No ()

- If No, provide comments

OTHER ITEMS:

Site Sketch Attached: Yes (X) No ()
 Photos Taken: Yes () No (X)

DESCRIPTION OF DAILY WORK PERFORMED:

The sampling crew continued to collect wall and floor samples. Twenty-two (24) samples, including 1 duplicate and one MS/MSD were collected on this day (see below). Building measurements were also performed.

SAMPLING (Soil/Water/Air)

Contractor (EA) Sample ID:

DEC Sample ID:

Description:

2-24-015 EA019	NA	Main floor wall sample (ERM1WL-L-015)
2-24-015 EA018	NA	Main floor sample (ERM1FL-064)
2-24-015 EA020	NA	Main floor wall sample (ERM1WL-L-012)
2-24-015 EA023	NA	1 st mezzanine wall sample (ERM2WL-L-003)
Duplicate	NA	1 st mezzanine wall sample (2-24-015 EA023 →duplicate)
2-24-015 EA009	NA	1 st mezzanine floor sample (ERM1FL-L-003)
2-24-015 EA024	NA	1 st mezzanine wall sample (ERM2WL-L-004)
2-24-015 EA025	NA	1 st mezzanine wall sample
MS/MSD	NA	1 st mezzanine wall sample (2-24-015 EA025 MS/MSD)
2-24-015 EA022	NA	1 st mezzanine floor sample
2-24-015 EA021	NA	1 st mezzanine floor sample (ERM1FL -004)
2-24-015 EA026	NA	1 st mezzanine wall sample (ERM2WL-L-006)
2-24-015 EA010	NA	1 st mezzanine floor sample
2-24-015 EA027	NA	1 st mezzanine wall sample
2-24-015 EA007	NA	1 st mezzanine floor sample
2-24-015 EA006	NA	2 nd mezzanine floor sample
2-24-015 EA005	NA	2 nd mezzanine floor sample
2-24-015 EA004	NA	2 nd mezzanine floor sample

DAILY FIELD REPORT

Day: Tuesday Date: December 16, 2008

2-24-015 EA003	NA	2 nd mezzanine floor sample
2-24-015 EA002	NA	2 nd mezzanine floor sample
2-24-015 EA001	NA	2 nd mezzanine floor sample
2-24-015 EA008	NA	1 st mezzanine floor sample
2-24-015 EA028	NA	1 st mezzanine wall sample
2-24-015 EA034	NA	1 st mezzanine wall sample

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

(Name of contractor) personnel: Scott Fonte, Sarah Nelson, Chris Schroer, Chris Salvas, Bob Casey, Pete Garger

(Name of Subcontractor) personnel:

(Name of contractor) equipment: 6,000 kW generator, hammer drill, work lights

*(*Indicates active equipment)*

Other Subcontractors:

VISITORS TO SITE:

1. None

PROJECT SCHEDULE ISSUES:

None

PROJECT BUDGET ISSUES:

None.

ITEMS OF CONCERN:

COMMENTS:

ATTACHMENT(S) TO THIS REPORT: Sample location map(s).

SITE REPRESENTATIVE:

Name: *(signature)*



cc:Don Conan, P.E.

DAILY FIELD REPORT

Day: Wednesday Date: December 17, 2008



NYSDEC

Temperature: 32 (am) 32/rain (pm)
(F)

Wind: NW (am) NW (pm)
Direction:

Weather: (am) Cold and overcast – snow/rain
(pm) NA

Project Name: Empire Electric

NYSDEC Site #: 2-24-015

Contract #: D004441-26

Arrive at site 8:00 (am)

Location, Brooklyn, New York

Leave site: 11:00 (am)

HEALTH & SAFETY:

Are there any changes to the Health & Safety Plan?
(If yes, list the deviation under items for concern)

Yes () No (X)

Are monitoring results at acceptable levels?

Soil	Yes ()	n/a (X)	* No ()
Waters	Yes ()	n/a (X)	* No ()
Air	Yes ()	n/a (X)	* No ()

- If No, provide comments

OTHER ITEMS:

Site Sketch Attached: Yes (X) No ()
 Photos Taken: Yes (X) No ()

DESCRIPTION OF DAILY WORK PERFORMED:

The sampling crew completed wall and floor sample collection activities. Six (6) samples, including one MS/MSD were collected on this day (see below). Building measurements were completed.

PROJECT TOTALS:

SAMPLING (Soil/Water/Air)

Contractor (EA) Sample ID:	DEC Sample ID:	Description:
2-24-015 EA030	NA	Main floor wall sample
2-24-015 EA031	NA	Main floor wall sample
2-24-015 EA032	NA	Main floor wall sample (ERM1FL-063)
2-24-015 EA033	NA	Main floor wall sample
2-24-015 EA029	NA	Main floor sample (ERM1FL-068)
MS/MSD	NA	Main floor wall sample (2-24-015 EA012→MS/MSD)

DAILY FIELD REPORT

Day: Wednesday Date: December 17, 2008

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

(Name of contractor) personnel: Scott Fonte, Sarah Nelson, Chris Schroer, Chris Salvas

(Name of Subcontractor) personnel:

(Name of contractor) equipment: 6,000 kW generator, hammer drill, work lights

*(*Indicates active equipment)*

Other Subcontractors:

VISITORS TO SITE:

1. None

PROJECT SCHEDULE ISSUES:

None

PROJECT BUDGET ISSUES:

None.

ITEMS OF CONCERN:

COMMENTS:

ATTACHMENT(S) TO THIS REPORT: Sample location map(s).

SITE REPRESENTATIVE:

Name: *(signature)*



cc:Don Conan, P.E.

DAILY PHOTOLOG





DAILY FIELD REPORT

Day: Tuesday Date: 14 April 2009



NYSDEC

Temperature: (F) 50 (am) 45 (pm)

Wind Direction: East (am) East (pm)
10mph 10mph

Project: Name Empire Electric

Weather: (am) Cloudy
(pm) Clouds, scattered rain

NYSDEC Site # 2-24-015

Contract # D004441-26

Arrive at site 0700 (am)

Location: Brooklyn, New York

Leave site: 1600 (pm)

HEALTH & SAFETY:

Are there any changes to the Health & Safety Plan? Yes () No (X)
(If yes, list the deviation under items for concern)

Are monitoring results at acceptable levels? Soil Yes () n/a (X) * No ()
Waters Yes (X) n/a () * No ()
Air Yes () n/a (X) * No ()

• If No, provide comments

OTHER ITEMS:

Site Sketch Attached: Yes () No (X)
Photos Taken: Yes (X) No ()

DESCRIPTION OF DAILY WORK PERFORMED:

Arrived on site at 0700, unloaded equipment, and conducted a preliminary inspection of the building. Identified a damaged masonry wall in the northwest corner of the building. A hole had been smashed through the cinder block wall permitting entrance to the building. Photos were collected and forwarded to the project manager. The steel drums containing purge water from the well installation and development had been tipped over and spilled to the concrete floor. One drum was damaged enough to prevent closure with the lid and ring. Pine Environmental arrived at 0730 and delivered groundwater sampling equipment.

Groundwater purging, using low flow sampling methods, began at MW-08 and MW-09 and continued towards the back of the building. Nine monitoring wells were sampled and no odors or sheens were detected. However, a slight sheen was observed in the initial purge water of EMMW-5. Sample locations were marked for brick/concrete sample collection. Groundwater samples were placed in coolers with bubble wrap and double-bagged ice, and were delivered to Chemtech Laboratories after departing the site at 1600 hours. The site main door was bolted and locked.

PROJECT TOTALS:

SAMPLING (Water)

Contractor Sample ID:	DEC Sample ID:	Description:
224015-MW08		MW-08 Groundwater sample (6 bottles)
224015-MW09		MW-09 Groundwater sample (6 bottles)
224015-EMMW-2		EMMW-2 Groundwater sample (6 bottles)
224015-7-MW-10		7-MW-10 Groundwater sample (6 bottles)
224015-7-MW-12		7-MW-12 Groundwater sample (18 bottles) w/ MS/MSD
224015-EMMW-5		EMMW-5 Groundwater sample (6 bottles)

DAILY FIELD REPORT

Day: Tuesday Date: 14 April 2009

224015-7-MW-11		7-MW-11 Groundwater sample (6 bottles)
224015-EMMW-1		EMMW-1 Groundwater sample (6 bottles)
224015-EMMW-3		EMMW-3 Groundwater sample (6 bottles)
224015-Duplicate		Duplicate of 224015-7-MW-11

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

(EA Engineering) personnel: Chris Schroer, Dave Crandall, Megan Scott

(Subcontractor) personnel: None

(Rental) equipment: (United Rentals) 6,000 kW generator; (Pine Environmental) Honda 2000i generator, two Horiba U-22, two Solinst Water level indicators, two Grundfos 2" submersible pumps & controllers.

*(*Indicates active equipment)*

Other Subcontractors: None

VISITORS TO SITE:

1. None

PROJECT SCHEDULE ISSUES:

None.

PROJECT BUDGET ISSUES:

None.

ITEMS OF CONCERN:

A masonry wall blocking an old entrance was damaged by vandals. The hole was large enough to permit entrance to the building. During the building inspection, several small fire pits were identified. The fires sites were contained by piles of brick debris. Some monitoring wells (EM-B-1, EMMW-6, and EMMW-4) were not located as described. We were also not permitted access to the newly installed MW-10 by the production studio.

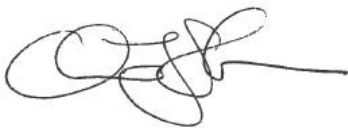
COMMENTS:

Groundwater samples were collected from nine monitoring wells. In addition, a duplicate, a matrix spike, and matrix spike duplicate were collected.

ATTACHMENT(S) TO THIS REPORT:

None.

SITE REPRESENTATIVE:



Name: Chris Schroer
cc: Don Conan, P.E., Scott Fonte, P.E.

DAILY PHOTOLOG









DAILY FIELD REPORT

Day: Wednesday Date: 15 April 2009



NYSDEC

Temperature: (F) 41 (am) 56 (pm)

Wind Direction: NE 10-15 mph (am) NE 10-15 mph (pm)

Weather: (am) Cloudy, rain (pm) Cloudy

Project: Name Empire Electric

NYSDEC Site # 2-24-015

Contract # D004441-26

Arrive at site 0730 (am)

Location: Brooklyn, New York

Leave site: 1645 (pm)

HEALTH & SAFETY:

Are there any changes to the Health & Safety Plan? (If yes, list the deviation under items for concern) Yes () No (X)

Are monitoring results at acceptable levels? Soil: Yes () n/a (X) * No () Waters: Yes () n/a (X) * No () Air: Yes () n/a (X) * No ()

• If No, provide comments

OTHER ITEMS:

Site Sketch Attached: Yes () No (X) Photos Taken: Yes (X) No ()

DESCRIPTION OF DAILY WORK PERFORMED:

Arrived on site at 0730 and unloaded equipment. Conducted a morning inspection of the building and marked additional sample collection locations for brick/concrete samples. Samples of building materials (brick and concrete) were collected using Bosch Hammer-drills with 1" bits

The two field teams collected 46 samples plus 2 field duplicates (DUP01 of EA-MWL-055L and DUP02 of EA-MWL-068L), two MS/MSD samples, and two rinse blanks from non-dedicated field equipment (1L ambers). Building material samples were collected using dedicated natural bristle brushes and aluminum foil. Duplicates and MS/MSD samples were each consolidated, mixed, and distributed evenly between sample jars. EA departed the site at 1645.

PROJECT TOTALS:

SAMPLING (Building Materials)

Contractor Sample ID:	DEC Sample ID:	Description:
EA-MFL-035		Main floor slab (bldg characterization)
EA-MFL-037		Main floor slab (bldg characterization)
EA-MFL-038		Main floor slab (bldg characterization)
EA-MFL-039		Main floor slab (bldg characterization)
EA-MFL-040		Main floor slab (bldg characterization)
EA-MFL-041		Main floor slab (bldg characterization)
EA-MFL-042		Main floor slab (confirm TSCA)
EA-MFL-043		Main floor slab (bldg characterization)

DAILY FIELD REPORT**Day: Wednesday Date: 15 April 2009**

EA-MFL-044		Main floor slab (bldg characterization)
EA-MFL-045		Main floor slab (bldg characterization)
EA-MFL-046		Main floor slab (bldg characterization)
EA-MFL-047		Main floor slab (bldg characterization) MS/MSD
EA-MFL-048		Main floor slab (bldg characterization)
EA-MFL-049		Main floor slab (bldg characterization)
EA-MFL-050		Main floor slab (bldg characterization)
EA-MFL-051		Main floor slab (bldg characterization)
EA-MFL-052		Main floor slab (bldg characterization)
EA-MFL-053		Main floor slab (confirm TSCA)
EA-MWL-054L		Main floor wall (bldg characterization)
EA-MWL-055L		Main floor wall (bldg characterization)
EA-DUP01		Field duplicate of EA-MWL-055L
EA-MFL-056		Main floor slab (bldg characterization)
EA-MWL-057L		Main floor wall (bldg characterization)
EA-MWL-058L		Main floor wall (bldg characterization)
EA-MWL-059L		Main floor wall (bldg characterization)
EA-MFL-060		Main floor slab (bldg characterization)
EA-MFL-061		Main floor slab (bldg characterization)
EA-MFL-062		Main floor slab (bldg characterization)
EA-MWL-063L		Main floor wall (bldg characterization) (MS/MSD)
EA-MWL-064L		Main floor wall (bldg characterization)
EA-MFL-065		Main floor slab (bldg characterization)
EA-MFL-066		Main floor slab (bldg characterization)
EA-MFL-067		Main floor slab (bldg characterization)
EA-MWL-068L		Main floor wall (bldg characterization)
EA-DUP02		Field duplicate of EA-MWL-068L
EA-MFL-069		Main floor slab (bldg characterization)
EA-MFL-070		Main floor slab (bldg characterization)
EA-MFL-071		Main floor slab (bldg characterization)
EA-MFL-072		Main floor slab (bldg characterization)
EA-MWL-073L		Main floor wall (bldg characterization)
EA-2FL-074		2 nd Mezzanine floor slab (bldg characterization)

DAILY FIELD REPORT**Day: Wednesday Date: 15 April 2009**

EA-2FL-075		2 nd Mezzanine floor slab (bldg characterization)
EA-2FL-076		2 nd Mezzanine floor slab (bldg characterization)
EA-2FL-077		2 nd Mezzanine floor slab (bldg characterization)
EA-2FL-078		2 nd Mezzanine floor slab (bldg characterization)
EA-2FL-079		2 nd Mezzanine floor slab (bldg characterization)
EA-2FL-080		2 nd Mezzanine floor slab (bldg characterization)
EA-2WL-081L		2 nd Mezzanine wall (bldg characterization)
EA-RINSATE-01		Rinse Blank (field team #1)
EA-RINSATE-02		Rinse Blank (field team #2)

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

(EA Engineering) personnel: Chris Schroer, Dave Crandall, Megan Scott, Scott Fonte

(Subcontractor) personnel: None

(Rental) equipment: (United Rentals) 6,000 kW generator; (McQuade & Bannigan) two Bosch Hammer Drills

*(*Indicates active equipment)*

Other Subcontractors: None

VISITORS TO SITE:

1. None

PROJECT SCHEDULE ISSUES:

None.

PROJECT BUDGET ISSUES:

None.

ITEMS OF CONCERN:

Scott Fonte arrived on site at 0830 and noticed that the locks on the front man-door had been cut (possibly with an angle grinder) between the monitoring well installation and this field event. The lock bodies were missing and the remnants of the hasps were found on the ground. The roll-up grate was secured using a lock from the vehicle door. The remains of several small fires were found throughout the back basement area. The only burnt materials found were newspapers and magazines.

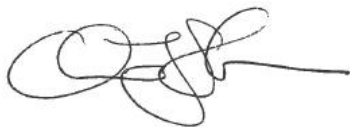
COMMENTS:

None.

ATTACHMENT(S) TO THIS REPORT:

None.

SITE REPRESENTATIVE:



Name: Chris Schroer
cc: Don Conan, P.E., Scott
Fonte, P.E.

DAILY PHOTOLOG





DAILY FIELD REPORT

Day: Friday Date: 17 April 2009



NYSDEC

Temperature: (F) 45 (am) 64 (pm)

Wind Direction: S 0-5 (am) S 0-5 (pm)
mph mph

Project: Name Empire Electric

Weather: (am) Clear/Sunny

NYSDEC Site # 2-24-015

(pm) Clear/Sunny

Contract # D004441-26

Arrive at site 0800 (am)

Location: Brooklyn, New York

Leave site: 1200 (pm)

HEALTH & SAFETY:

Are there any changes to the Health & Safety Plan? Yes () No (X)
(If yes, list the deviation under items for concern)

Are monitoring results at acceptable levels? Soil Yes () n/a (X) * No ()

Waters Yes () n/a (X) * No ()

Air Yes () n/a (X) * No ()

• If No, provide comments

OTHER ITEMS:

Site Sketch Attached: Yes () No (X)

Photos Taken: Yes (X) No ()

DESCRIPTION OF DAILY WORK PERFORMED:

Arrived on site at 0800 and unloaded equipment. Collected last three samples of building materials (brick and concrete) were collected using Bosch Hammer-drills with 1" bits.

The two field teams collected five samples (from the back of the building to the front) including one field duplicate (DUP07 of EA-BFL-082L), one MS/MSD sample, and one rinse blank from non-dedicated field equipment (1L amber). Building material samples were collected using dedicated natural bristle brushes and aluminum foil. Duplicates and MS/MSD samples were each consolidated, mixed, and distributed evenly between sample jars. EA removed broken blocks for the hole in the masonry wall with the hammer drill and chisel bit and then patched the hole in the masonry wall using cinder blocks and mortar. EA performed a sample inventory, and prepared chains of custody for the remaining samples. Sample coolers were hand delivered to Chemtech Laboratories after EA departed the site at 1200.

PROJECT TOTALS:

SAMPLING (Building Materials)

<u>Contractor Sample ID:</u>	<u>DEC Sample ID:</u>	<u>Description:</u>
EA-MFL-036		Slab – Main Floor (Building Characterization)
EA-BPL-082L		Pillar - Basement Floor (Building Characterization)
EA-BPL-083L		Pillar - Basement Floor (Building Characterization) *MS/MSD
EA-DUP07		Field duplicate of EA-BFL-082L
RINSATE-03		Rinse Blank (field team #1)

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

DAILY FIELD REPORT

Day: Friday Date: 17 April 2009

(EA Engineering) personnel: Chris Schroer, Dave Crandall, Megan Scott, Scott Fonte

(Subcontractor) personnel: None

(Rental) equipment: (United Rentals) 6,000 kW generator; (McQuade & Bannigan) two Bosch Hammer Drills

(*Indicates active equipment)

Other Subcontractors: None

VISITORS TO SITE:

1. None

PROJECT SCHEDULE ISSUES:

None.

PROJECT BUDGET ISSUES:

None.

ITEMS OF CONCERN:

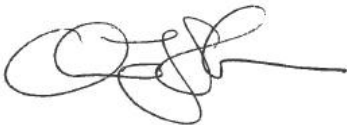
COMMENTS:

The steel drum containing purge water from groundwater sampling on 14 April 2009 had been tipped over and spilled onto the concrete floor.

ATTACHMENT(S) TO THIS REPORT:

None.

SITE REPRESENTATIVE:



Name: Chris Schroer
cc: Don Conan, P.E., Scott
Fonte, P.E.

DAILY PHOTOLOG





Appendix E

Analytical Data Correlation Memorandum to NYSDEC (27 January 2009)



EA Engineering, P.C.
EA Science and Technology

6731 Collamer Road, Suite 2
East Syracuse, NY 13057-9808
Telephone: 315-431-4610
Fax: 315-431-4280
www.eaest.com

27 January 2009

MEMORANDUM

TO: Dave Chiusano **LOCATION:** NYSDEC – Albany, NY
FROM: Don Conan **LOCATION:** EA – Syracuse, NY
**SUBJECT: Empire Electric (NYSDEC Site No. 2-24-015)
EA and ERM Sampling Data Comparison**

Dave,

Three separate regression analyses were performed using the three available sets of sampling data from the Empire Electric site: ERM immuno-assay data, ERM laboratory analysis data (EPA method 8082) and EA laboratory analysis data (EPA method 8082).

In December of 2008, EA collected 34 field samples. Fourteen of these samples coincided with locations where ERM performed laboratory analysis on collected building materials using EPA method 8082 and twenty-four of the EA samples coincided with ERM immuno-assay sampling locations. During ERM's field sampling activities, sixty-one samples were analyzed using EPA method 8082, these locations had corresponding immuno-assay values.

For the purpose of this regression analysis the following data sets were compared:

- EA laboratory values vs. ERM laboratory values
- EA laboratory values vs. ERM immuno-assay values
- ERM laboratory values vs. ERM immuno-assay values

This preliminary analysis demonstrates that there is strong correlation (93.5%) between the EA and ERM laboratory values as shown by the R^2 value of 0.935. This analysis also demonstrates that there is a very weak correlation between the EA laboratory and the ERM immuno-assay values (32.2%) and a weak correlation between ERM laboratory values and ERM immuno-assay values (58.7%) as shown by the R^2 values of 0.322 and 0.587, respectively.

The R^2 value is the coefficient of determination “is interpreted as the proportion of observed y variation that can be explained by the simple linear regression model (attributed to an approximate linear relationship between x and y” (Devore, 2000).

**Summary of Detected PCB's in Building Material Samples
Empire Electric (NYSDEC Site No. 2-24-015)
Brooklyn, NY**

EA Sample ID	Sample Locaiton	EA Total PCBs EPA-8082	ERM Sample ID	ERM - Total PCBs	
				EPA-8082	Immuno- Assay
2-24-015 EA001	2 nd mezzanine floor sample	1.800	ERM-3FL-005	--	28.82
2-24-015 EA002	2 nd mezzanine floor sample	2.000	ERM-3FL-010	--	61.06
2-24-015 EA003	2 nd mezzanine floor sample	170	ERM-3FL-014	6.3	23.89
2-24-015 EA004	2 nd mezzanine floor sample	25.000	ERM-3FL-020	--	10.55
2-24-015 EA005	2 nd mezzanine floor sample	150	ERM-3FL-023	96	61.06
2-24-015 EA006	2 nd mezzanine floor sample	17.000	ERM-3FL-026	2.1	182.2
2-24-015 EA007	1 st mezzanine floor sample	5.300	ERM-2FL-007	0.27	38.63
2-24-015 EA008	1 st mezzanine floor sample	32.000	ERM-2FL-008	10.3	116.32
2-24-015 EA009	1 st mezzanine floor sample	0.210	ERM-2FL-003	0.21	16.96
2-24-015 EA010	1 st mezzanine floor sample	U	--	--	--
2-24-015 EA011	Main floor wall sample	0.033	ERM-1WL-L-008	0.1	8.12
2-24-015 EA012	Main floor wall sample	0.150	ERM-1WL-L-010	0.01	20.64
2-24-015 EA013	Main floor wall sample	0.023	ERM-1WL-L-007	--	27.61
2-24-015 EA014	Main floor wall sample	0.080	--	--	--
2-24-015 EA015	Main floor wall sample	0.015	ERM-1WL-L-006	0.08	25.21
2-24-015 EA016	Main floor wall sample	0.075	ERM-1WL-L-005	--	24.61
2-24-015 EA017	Main floor wall sample	0.063	ERM-1WL-L-003	0.17	43.07
2-24-015 EA018	Main floor sample	2500	ERM-1FL-064	--	91.85
2-24-015 EA019	Main floor wall sample	1.200	ERM-1WL-L-015	--	28.12
2-24-015 EA020	Main floor wall sample	1.300	ERM-1WL-L-012	0.54	67.21
2-24-015 EA021	1st mezzanine floor sample	0.150	ERM-2FL -004	--	15.68
2-24-015 EA022	1st mezzanine floor sample	1.300	--	--	--
2-24-015 EA023	1st mezzanine wall sample	0.270	ERM-2WL-L-003	--	50.2
2-24-015 EA024	1st mezzanine wall sample	0.260	ERM-2WL-L-004	--	27.69
2-24-015 EA025	1st mezzanine wall sample	0.500	--	--	--
2-24-015 EA026	1st mezzanine wall sample	0.310	ERM-2WL-L-006	--	4.09
2-24-015 EA027	1 st mezzanine wall sample	0.130	--	--	--
2-24-015 EA028	1 st mezzanine wall sample	0.085	--	--	--
2-24-015 EA029	Main floor sample	140	ERM-1FL-068	29	72.85
2-24-015 EA030	Main floor wall sample	0.970	--	--	--
2-24-015 EA031	Main floor wall sample	2.100	--	--	--
2-24-015 EA032	Main floor sample	2500	ERM-1FL-063	310	194.21
2-24-015 EA033	Main floor wall sample	0.290	--	--	--
2-24-015 EA034	1 st mezzanine wall sample	0.150	--	--	--

Notes: All sample results are shown in parts per million (ppm)

EPA Test Method 8082 analytical data results from December 2008 EA investigation are provided by Chemtech Laboratories. Data validation to be completed by Environmental Data Services, Inc.

EPA Test Method 8082 analytical data results from October 2006 ERM investigation are provided by Severn Trent Laboratories. Data validation to be completed by Environmental Data Services, Inc.

Bold values indicate that the analyte was detected above the allowable TSCA disposal concentraiton of 50 ppm.

